

1-1-2008

2008 Index IEEE Transactions on Control Systems Technology Vol. 16

Chaouki T. Abdallah

Follow this and additional works at: http://digitalrepository.unm.edu/ece_fsp

Recommended Citation

Abdallah, Chaouki T.. "2008 Index IEEE Transactions on Control Systems Technology Vol. 16." *IEEE TRANSACTIONS ON CONTROL SYSTEMS TECHNOLOGY* 16, 6 (2008): 1368-1388. http://digitalrepository.unm.edu/ece_fsp/2

This Article is brought to you for free and open access by the Engineering Publications at UNM Digital Repository. It has been accepted for inclusion in Electrical & Computer Engineering Faculty Publications by an authorized administrator of UNM Digital Repository. For more information, please contact amywinter@unm.edu.

2009 Index

IEEE Antennas and Wireless Propagation Letters

Vol. 8

This index covers all technical items — papers, correspondence, reviews, etc. — that appeared in this periodical during 2009, and items from previous years that were commented upon or corrected in 2009. Departments and other items may also be covered if they have been judged to have archival value.

The Author Index contains the primary entry for each item, listed under the first author's name. The primary entry includes the coauthors' names, the title of the paper or other item, and its location, specified by the publication abbreviation, year, month, and inclusive pagination. The Subject Index contains entries describing the item under all appropriate subject headings, plus the first author's name, the publication abbreviation, month, and year, and inclusive pages. Note that the item title is found only under the primary entry in the Author Index.

AUTHOR INDEX

A

- Aanandan, C. K.**, *see* Sarin, V. P., *LAWP* 2009 779-781
- Abbas, Z.**, *see* You, K. Y., *LAWP* 2009 1246-1249
- Abbaspour, M.**, and Hassani, H. R., Wideband Planar Patch Antenna Array on Cylindrical Surface; *LAWP* 2009 394-397
- Abbosh, A. M.**, Miniaturized Microstrip-Fed Tapered-Slot Antenna With Ultrawideband Performance; *LAWP* 2009 690-692
- Abdallah, C. T.**, *see* Costantine, J., *LAWP* 2009 1072-1075
- Abdallah, E. A.**, *see* Elsheakh, D. N., *LAWP* 2009 959-962
- Abdallah, E. A.**, *see* Elsheakh, D. N., *LAWP* 2009 1255-1258
- Abdallah, M.**, Colombel, F., Le Ray, G., and Himdi, M., Quasi-Unidirectional Radiation Pattern of Monopole Coupled Loop Antenna; *LAWP* 2009 732-735
- Abhaikumar, V.**, *see* Manimegalai, B., *LAWP* 2009 359-362
- Abhari, R.**, *see* Kostka, D., *LAWP* 2009 720-723
- Abhari, R.**, *see* Payandehjoo, K., *LAWP* 2009 1162-1165
- Abielmona, S.**, *see* Nguyen, H. V., *LAWP* 2009 441-444
- Adamiuk, G.**, *see* Beer, S., *LAWP* 2009 771-774
- Adamiuk, G.**, Beer, S., Wiesbeck, W., and Zwick, T., Dual-Orthogonal Polarized Antenna for UWB-IR Technology; *LAWP* 2009 981-984
- Adams, J. J.**, and Bernhard, J. T., Tuning Method for a New Electrically Small Antenna With Low Q ; *LAWP* 2009 303-306
- Adams, R. S.**, O'Neil, B., and Young, J. L., The Circulator and Antenna as a Single Integrated System; *LAWP* 2009 165-168
- Addamo, G.**, *see* Virone, G., *LAWP* 2009 546-549
- Addamo, G.**, Peverini, O. A., Tascone, R., Virone, G., Cecchini, P., and Orta, R., A Ku-K Dual-Band Compact Circular Corrugated Horn for Satellite Communications; *LAWP* 2009 1418-1421
- Addamo, G.**, Peverini, O. A., Virone, G., Tascone, R., and Orta, R., Model-Order Reduction Technique for the Efficient Analysis of Complex Waveguide Structures An Application to the Design of Corrugated Horns; *LAWP* 2009 1039-1042
- Affes, S.**, *see* Boukari, B., *LAWP* 2009 759-762
- Ahn, C.-H.**, Oh, S.-W., and Chang, K., A Dual-Frequency Omnidirectional Antenna for Polarization Diversity of MIMO and Wireless Communication Applications; *LAWP* 2009 966-969
- Akhdar, O.**, Mouhamadou, M., Carsenat, D., Decroze, C., and Monediere, T., A New CLEAN Algorithm for Angle of Arrival Denoising; *LAWP* 2009 478-481
- Al-Saffar, S.**, *see* Costantine, J., *LAWP* 2009 943-946
- Al-Zoubi, A.**, *see* Hassan, A. M., *LAWP* 2009 1218-1222
- Albooyeh, M.**, Komjani, N., and Mahani, M. S., A Circularly Polarized Element for Reflectarray Antennas; *LAWP* 2009 319-322
- Alexopoulos, N. G.**, *see* Liu, Y., *LAWP* 2009 271-274
- Alfonso, E.**, *see* Kildal, P.-S., *LAWP* 2009 84-87
- Ali, M.**, *see* Sayem, A. T. M., *LAWP* 2009 49-52
- Ali, S. M.**, *see* Kanj, H., *LAWP* 2009 185-188
- Ali, S. M.**, *see* Kanj, H., *LAWP* 2009 815-818
- Ali, S. M.**, Qu, S., Kohandani, F., and Lusina, P., Deterministic and Statistical-Based Channel Models in the MIMO Link Evaluation; *LAWP* 2009 927-930
- Almpanis, G.**, Fumeaux, C., Frohlich, J., and Vahldieck, R., A Truncated Conical Dielectric Resonator Antenna for Body-Area Network Applications; *LAWP* 2009 279-282
- Alvarez, Y.**, Las-Heras, F., Dominguez-Casas, B. A., and Garcia, C., Antenna Diagnostics Using Arbitrary-Geometry Field Acquisition Domains; *LAWP* 2009 375-378
- Amadjikpe, A. L.**, Choudhury, D., Ponchak, G. E., Pan, B., Li, Y., and Pappalymou, J., Proximity Effects of Plastic Laptop Covers on Radiation Characteristics of 60-GHz Antennas; *LAWP* 2009 763-766
- Amendola, G.**, *see* Arnieri, E., *LAWP* 2009 894-897
- Anagnostou, D. E.**, and Gheethan, A. A., A Coplanar Reconfigurable Folded Slot Antenna Without Bias Network for WLAN Applications; *LAWP* 2009 1057-1060
- Ando, R.**, *see* Shibayama, J., *LAWP* 2009 890-893
- Andronov, I. V.**, High-Frequency Asymptotics for Diffraction by a Strongly Elongated Body; *LAWP* 2009 872
- Anglesio, L.**, *see* Trincherio, D., *LAWP* 2009 224-227
- Anglesio, L.**, *see* Trincherio, D., *LAWP* 2009 494-497
- Antar, Y. M. M.**, *see* Chu, L. C. Y., *LAWP* 2009 482-485
- Antar, Y. M. M.**, *see* Podilchak, S. K., *LAWP* 2009 371-374
- Antar, Y. M. M.**, *see* Guha, D., *LAWP* 2009 1178-1181
- Antoniades, M. A.**, and Eleftheriades, G. V., A Broadband Dual-Mode Monopole Antenna Using NRI-TL Metamaterial Loading; *LAWP* 2009 258-261
- Apaydin, G.**, and Sevgi, L., FEM-Based Surface Wave Multimixed-Path Propagator and Path Loss Predictions; *LAWP* 2009 1010-1013
- Apollonio, F.**, *see* Liberti, M., *LAWP* 2009 865-868
- Araque Quijano, J. L.**, and Vecchi, G., Improved-Accuracy Source Reconstruction on Arbitrary 3-D Surfaces; *LAWP* 2009 1046-1049
- Arias-Acuna, M.**, *see* Grana-Varela, M., *LAWP* 2009 839-842
- Arnaut, E.**, *see* Menudier, C., *LAWP* 2009 315-318
- Arnaut, E.**, *see* Chreim, H., *LAWP* 2009 665-669
- Arnaut, E.**, *see* Menudier, C., *LAWP* 2009 611-615
- Arnieri, E.**, Boccia, L., and Amendola, G., A Ka-Band Dual-Frequency Radiator for Array Applications; *LAWP* 2009 894-897
- Aronsson, J.**, Jeffrey, I., and Okhmatovski, V., Generalization of the Barnes Hut Algorithm for the Helmholtz Equation in Three Dimensions; *LAWP* 2009 425-428
- Arts, M. J.**, *see* Maaskant, R., *LAWP* 2009 1166-1170
- Aten, D.**, *see* Haupt, R. L., *LAWP* 2009 1288-1290
- Attia, H.**, Yousefi, L., Bait-Suwailam, M. M., Boybay, M. S., and Ramahi, O. M., Enhanced-Gain Microstrip Antenna Using Engineered Magnetic Substrates; *LAWP* 2009 1198-1201
- Aubert, H.**, *see* Hebib, S., *LAWP* 2009 352-355
- Avila-Navarro, E.**, Carrasco, J. A., and Reig, C., Dual Printed Antenna for Wi-Fi Applications; *LAWP* 2009 596-598
- Awida, M. H.**, and Fathy, A. E., Substrate-Integrated Waveguide Ku-Band Cavity-Backed 2×2 Microstrip Patch Array Antenna; *LAWP* 2009 1054-1056
- Azaro, R.**, Viani, F., Lizzi, L., Zeni, E., and Massa, A., A Monopolar Quad-Band Antenna Based on a Hilbert Self-Affine Prefractal Geometry; *LAWP* 2009 177-180
- Azaro, R.**, Debiassi, L., Zeni, E., Benedetti, M., Rocca, P., and Massa, A., A Hybrid Prefractal Three-Band Antenna for Multistandard Mobile Wireless Applications; *LAWP* 2009 905-908

B

- Baccarelli, P.**, *see* Valerio, G., *LAWP* 2009 674-677
- Baccarelli, P.**, *see* Rodriguez-Berral, R., *LAWP* 2009 641-644
- Bach, J.**, *see* Weiss, M. D., *LAWP* 2009 916-919
- Bae, H. R.**, So, S. O., Cho, C. S., Lee, J. W., and Kim, J., A Crooked U-Slot Dual-Band Antenna With Radial Stub Feeding; *LAWP* 2009 1345-1348
- Back, Y.-H.**, Truong, L. H., Park, S.-W., Lee, S.-J., Chae, Y.-S., Rhee, E.-H., Park, H.-C., and Rhee, J.-K., 94-GHz Log-Periodic Antenna on GaAs Substrate Using Air-Bridge Structure; *LAWP* 2009 909-911

- Bait-Suwailam, M. M.**, *see* Attia, H., *LAWP 2009 1198-1201*
- Baker, J. M.**, *see* Lim, S. Y., *LAWP 2009 583-586*
- Baktur, R.**, *see* Turpin, T. W., *LAWP 2009 693-696*
- Balzano, Q.**, *see* Yang, B., *LAWP 2009 181-184*
- Banik, B.**, Vukusic, J., and Stake, J., Microwave S-Parameter Characterization of an Antenna-Coupled Catadioptric Lens; *LAWP 2009 1299-1301*
- Barbin, S. E.**, *see* Costantine, J., *LAWP 2009 1072-1075*
- Barott, W. C.**, and Steffes, P. G., Grating Lobe Reduction in Aperiodic Linear Arrays of Physically Large Antennas; *LAWP 2009 406-408*
- Beer, S.**, Adamiuk, G., and Zwick, T., Novel Antenna Concept for Compact Millimeter-Wave Automotive Radar Sensors; *LAWP 2009 771-774*
- Beer, S.**, *see* Adamiuk, G., *LAWP 2009 981-984*
- Bekers, D. J.**, *see* Maaskant, R., *LAWP 2009 1166-1170*
- Ben-Ari, E.**, *see* Remez, J., *LAWP 2009 898-902*
- Benedetti, M.**, *see* Azaro, R., *LAWP 2009 905-908*
- Benedetto, A.**, *see* Trincherro, D., *LAWP 2009 224-227*
- Benedetto, A.**, *see* Trincherro, D., *LAWP 2009 494-497*
- Benjamin, R.**, *see* Klemm, M., *LAWP 2009 1349-1352*
- Bernhard, J. T.**, *see* Adams, J. J., *LAWP 2009 303-306*
- Bernhard, J. T.**, *see* Ruyle, J. E., *LAWP 2009 935-938*
- Bernhard, J. T.**, *see* Yong, S., *LAWP 2009 1171-1174*
- Beruete, M.**, *see* Navarro-Cia, M., *LAWP 2009 212-215*
- Besnier, P.**, *see* Le Fur, G., *LAWP 2009 332-335*
- Best, S. R.**, A Low Q Electrically Small Magnetic (TE Mode) Dipole; *LAWP 2009 572-575*
- Bhatti, R. A.**, Choi, J.-H., and Park, S.-O., Quad-Band MIMO Antenna Array for Portable Wireless Communications Terminals; *LAWP 2009 129-132*
- Bhatti, R. A.**, Yi, S., and Park, S.-O., Compact Antenna Array With Port Decoupling for LTE-Standardized Mobile Phones; *LAWP 2009 1430-1433*
- Bialkowski, M. E.**, *see* Razali, A. R., *LAWP 2009 1029-1032*
- Black, J. A.**, and Richie, J. E., UHF Propagation in the Magnetic Resonance Bore; *LAWP 2009 869-871*
- Boccia, L.**, *see* Armeri, E., *LAWP 2009 894-897*
- Bohorquez, J. C.**, Forero Pedraza, H. A., Pinzon, I. C. H., Castiblanco, J. A., Pena, P., and Guarnizo, H. F., Planar Substrate Integrated Waveguide Cavity-Backed Antenna; *LAWP 2009 1139-1142*
- Boria, V. E.**, *see* Carbonell, J., *LAWP 2009 886-889*
- Borja, A. L.**, *see* Carbonell, J., *LAWP 2009 886-889*
- Borji, A.**, Busuic, D., and Safavi-Naeini, S., Efficient, Low-Cost Integrated Waveguide-Fed Planar Antenna Array for Ku-Band Applications; *LAWP 2009 336-339*
- Borsoero, M.**, *see* Trincherro, D., *LAWP 2009 224-227*
- Borsoero, M.**, *see* Trincherro, D., *LAWP 2009 494-497*
- Boryszenko, A. O.**, Polarization Constraints in Dual-Polarized Phased Arrays Derived From an Infinite Current Sheet Model; *LAWP 2009 955-958*
- Boscolo, S.**, *see* Midrio, M., *LAWP 2009 1234-1237*
- Bosisio, R. G.**, *see* Boukari, B., *LAWP 2009 759-762*
- Boukari, B.**, Moldovan, E., Affes, S., Wu, K., Bosisio, R. G., and Tatu, S. O., Robust Microstrip-to-Waveguide Transitions for Millimeter-Wave Radar Sensor Applications; *LAWP 2009 759-762*
- Boybay, M. S.**, *see* Attia, H., *LAWP 2009 1198-1201*
- Boyle, K.**, *see* Liu, Z., *LAWP 2009 311-314*
- Bozza, G.**, Ottonello, M., and Raffetto, M., Difficulties in Recognizing Ill-Posed Electromagnetic Problems Involving Wrong Effective Models of Media; *LAWP 2009 1283-1287*
- Braaten, B. D.**, Nelson, R. M., and Rogers, D. A., Input Impedance and Resonant Frequency of a Printed Dipole With Arbitrary Length Embedded in Stratified Uniaxial Anisotropic Dielectrics; *LAWP 2009 806-810*
- Braaten, B. D.**, Reich, M., and Glower, J., A Compact Meander-Line UHF RFID Tag Antenna Loaded With Elements Found in Right/Left-Handed Coplanar Waveguide Structures; *LAWP 2009 1158-1161*
- Brakora, K. F.**, and Sarabandi, K., Integration of Single-Mode Photonic Crystal Clad Waveguides With Monolithically Constructed Ceramic Subsystems; *LAWP 2009 433-436*
- Bredow, J. W.**, *see* Lu, M., *LAWP 2009 204-208*
- Bucci, O. M.**, *see* Isernia, T., *LAWP 2009 169-172*
- Bucci, O. M.**, Isernia, T., and Morabito, A. F., Optimal Synthesis of Directivity Constrained Pencil Beams by Means of Circularly Symmetric Aperture Fields; *LAWP 2009 1386-1389*
- Buchanan, N. B.**, *see* Fusco, V. F., *LAWP 2009 490-493*
- Bultitude, R. J. C.**, *see* Dahman, G. S., *LAWP 2009 657-660*
- Burghignoli, P.**, *see* Rodriguez-Berral, R., *LAWP 2009 641-644*
- Burghignoli, P.**, *see* Lovat, G., *LAWP 2009 708-711*
- Busuic, D.**, *see* Borji, A., *LAWP 2009 336-339*
- Butherus, D.**, *see* Sullivan, D. M., *LAWP 2009 1080-1083*
- Byun, J.**, *see* Rhyu, H., *LAWP 2009 453-456*
- Byun, J.**, *see* Choi, N., *LAWP 2009 580-582*

C

- Cai, Y.**, and Du, Z., A Novel Pattern Reconfigurable Antenna Array for Diversity Systems; *LAWP 2009 1227-1230*
- Caloz, C.**, *see* Nguyen, H. V., *LAWP 2009 441-444*
- Caloz, C.**, *see* Kodera, T., *LAWP 2009 1202-1205*
- Caminita, F.**, Costanzo, S., Di Massa, G., Guarnieri, G., Maci, S., Mauriello, G., and Venneri, I., Reduction of Patch Antenna Coupling by Using a Compact EBG Formed by Shorted Strips With Interlocked Branch-Stub; *LAWP 2009 811-814*
- Campillo, I.**, *see* Navarro-Cia, M., *LAWP 2009 212-215*
- Cao, Q.**, *see* Wang, Y., *LAWP 2009 1017-1020*
- Capobianco, A. D.**, *see* Midrio, M., *LAWP 2009 1234-1237*
- Carbonell, J.**, Borja, A. L., Boria, V. E., and Lippens, D., Duality and Superposition in Split-Ring-Resonator-Loaded Planar Transmission Lines; *LAWP 2009 886-889*
- Carlsson, J.**, *see* Chen, X., *LAWP 2009 678-681*
- Carrasco, J. A.**, *see* Avila-Navarro, E., *LAWP 2009 596-598*
- Carsenat, D.**, *see* Akhdar, O., *LAWP 2009 478-481*
- Castiblanco, J. A.**, *see* Bohorquez, J. C., *LAWP 2009 1139-1142*
- Casula, G. A.**, and Montisci, G., Design of Dielectric-Covered Planar Arrays of Longitudinal Slots; *LAWP 2009 752-755*
- Cecchini, P.**, *see* Addamo, G., *LAWP 2009 1418-1421*
- Celik, N.**, Iskander, M. F., and Zhang, Z., Experimental Verification of the Hybrid Smart Antenna Algorithm With Modulated Waveforms; *LAWP 2009 236-239*
- Celik, N.**, *see* Lim, S. Y., *LAWP 2009 583-586*
- Cetiner, B. A.**, *see* Yildirim, B. S., *LAWP 2009 149-152*
- Cetiner, B. A.**, *see* Sukumar, C. R., *LAWP 2009 873-876*
- Chae, Y.-S.**, *see* Baek, Y.-H., *LAWP 2009 909-911*
- Chakrabarty, S. B.**, *see* Sharma, S. B., *LAWP 2009 513-516*
- Chakrabarty, S. B.**, *see* Sharma, S. B., *LAWP 2009 861-864*
- Chakravarty, K.**, *see* Maitra, A., *LAWP 2009 445-448*
- Chang, K.**, *see* Ahn, C.-H., *LAWP 2009 966-969*
- Chang, K.-P.**, *see* Chiu, C.-N., *LAWP 2009 1175-1177*
- Chang, W.**, and Feng, Z., Investigation of a Novel Wideband Feeding Technique for Dielectric Ring Resonator Antennas; *LAWP 2009 348-351*
- Chantalat, R.**, *see* Menudier, C., *LAWP 2009 315-318*
- Chantalat, R.**, *see* Hajj, M., *LAWP 2009 670-673*
- Chantalat, R.**, *see* Menudier, C., *LAWP 2009 611-615*
- Chantalat, R.**, *see* Serhal, D., *LAWP 2009 620-623*
- Chattha, H. T.**, Huang, Y., and Lu, Y., PIFA Bandwidth Enhancement by Changing the Widths of Feed and Shorting Plates; *LAWP 2009 637-640*
- Chattha, H. T.**, Huang, Y., Zhu, X., and Lu, Y., An Empirical Equation for Predicting the Resonant Frequency of Planar Inverted-F Antennas; *LAWP 2009 856-860*
- Chen, C.-C.**, *see* Osaretin, I. A., *LAWP 2009 145-148*
- Chen, C.-C.**, Sim, C.-Y.-D., and Chen, F.-S., A Novel Compact Quad-Band Narrow Strip-Loaded Printed Monopole Antenna; *LAWP 2009 974-976*
- Chen, F.-C.**, *see* Wang, S.-Y., *LAWP 2009 522-524*
- Chen, F.-C.**, *see* Hsieh, P.-H., *LAWP 2009 398-401*
- Chen, F.-C.**, *see* Liao, T.-H., *LAWP 2009 835-838*
- Chen, F.-S.**, *see* Chen, C.-C., *LAWP 2009 974-976*
- Chen, H.**, Hou, X., and Deng, L., Design of Frequency-Selective Surfaces Radome for a Planar Slotted Waveguide Antenna; *LAWP 2009 1231-1233*
- Chen, H.-M.**, *see* Lin, Y.-F., *LAWP 2009 6-9*
- Chen, H.-M.**, Wang, Y.-K., Lin, Y.-F., Lin, S.-C., and Pan, S.-C., A Compact Dual-Band Dielectric Resonator Antenna Using a Parasitic Slot; *LAWP 2009 173-176*
- Chen, I.-F.**, and Peng, C.-M., Printed Broadband Monopole Antenna for WLAN/WiMAX Applications; *LAWP 2009 472-474*
- Chen, I.-F.**, and Peng, C.-M., A Novel Reduced-Size Edge-Shorted Patch Antenna for UHF Band Applications; *LAWP 2009 475-477*
- Chen, I.-F.**, Peng, C.-M., and Hung, C.-C., A Faster Means to Estimate SAR Values for Mobile Phone Applications; *LAWP 2009 994-997*
- Chen, P.**, Hong, W., Kuai, Z., and Xu, J., A Substrate Integrated Waveguide Circular Polarized Slot Radiator and Its Linear Array; *LAWP 2009 120-123*
- Chen, P.-H.**, *see* Ren, Y.-J., *LAWP 2009 1302-1305*
- Chen, Q.**, *see* Li, L., *LAWP 2009 740-743*

- Chen, Q.**, see He, M., *LAWP 2009 530-533*
- Chen, Q.**, see Li, L., *LAWP 2009 881-885*
- Chen, R. S.**, see Du, L., *LAWP 2009 775-778*
- Chen, R.-H.**, see Lee, Y.-C., *LAWP 2009 356-358*
- Chen, S.-L.**, A Miniature RFID Tag Antenna Design for Metallic Objects Application; *LAWP 2009 1043-1045*
- Chen, S.-Y.**, Broadband Slot-Type Bruce Array Fed by a Microstrip-to-Slotline T-Junction; *LAWP 2009 116-119*
- Chen, S.-Y.**, see Lee, C.-H., *LAWP 2009 1033-1035*
- Chen, S.-Y.**, see Lee, C.-H., *LAWP 2009 963-965*
- Chen, W.**, see Zhong, H., *LAWP 2009 465-467*
- Chen, W.**, see Li, Y., *LAWP 2009 1069-1071*
- Chen, X.**, see Yang, J., *LAWP 2009 64-68*
- Chen, X.**, see Zuo, J., *LAWP 2009 141-144*
- Chen, X.**, see Guo, L., *LAWP 2009 554-557*
- Chen, X.**, Kildal, P.-S., Orlienius, C., and Carlsson, J., Channel Sounding of Loaded Reverberation Chamber for Over-the-Air Testing of Wireless Devices Coherence Bandwidth Versus Average Mode Bandwidth and Delay Spread; *LAWP 2009 678-681*
- Cheng, S.**, Rantakari, P., Malmqvist, R., Samuelsson, C., Vaha-Heikkilä, T., Rydberg, A., and Varis, J., Switched Beam Antenna Based on RF MEMS SPDT Switch on Quartz Substrate; *LAWP 2009 383-386*
- Chi, Y.-J.**, see Chiu, C.-W., *LAWP 2009 1099-1102*
- Chiang, M.-J.**, see Ko, C.-H., *LAWP 2009 1360-1363*
- Chiu, C.-N.**, and Chuang, W.-H., A Novel Dual-Band Spiral Antenna for a Satellite and Terrestrial Communication System; *LAWP 2009 624-626*
- Chiu, C.-N.**, and Chang, K.-P., A Novel Miniaturized-Element Frequency Selective Surface Having a Stable Resonance; *LAWP 2009 1175-1177*
- Chiu, C.-W.**, and Chi, Y.-J., Planar Hexa-Band Inverted-F Antenna for Portable Device Applications; *LAWP 2009 1099-1102*
- Chiu, C.-Y.**, Yan, J.-B., Murch, R. D., Yun, J. X., and Vaughan, R. G., Design and Implementation of a Compact 6-Port Antenna; *LAWP 2009 767-770*
- Cho, C. S.**, see Bae, H. R., *LAWP 2009 1345-1348*
- Cho, W. W.**, see Kim, J. H., *LAWP 2009 307-310*
- Choi, J.-H.**, see Bhatti, R. A., *LAWP 2009 129-132*
- Choi, J.-I.**, see Park, B.-S., *LAWP 2009 1143-1145*
- Choi, N.**, Jung, C., Byun, J., Harackiewicz, F. J., Park, M.-J., Chung, Y.-S., Kim, T., and Lee, B., Compact UWB Antenna With I-Shaped Band-Notch Parasitic Element for Laptop Applications; *LAWP 2009 580-582*
- Choo, H.**, see Nguyen, T. K., *LAWP 2009 57-59*
- Choudhury, D.**, see Amadjikpe, A. L., *LAWP 2009 763-766*
- Chreim, H.**, Hajj, M., Arnaud, E., Jecko, B., Dall'omo, C., and Dufrane, P., Multibeam Antenna for Telecommunications Networks Using Cylindrical EBG Structure; *LAWP 2009 665-669*
- Christodoulou, C. G.**, see Kim, J. H., *LAWP 2009 1337-1340*
- Christodoulou, C. G.**, see Tawk, Y., *LAWP 2009 1378-1381*
- Christodoulou, C. G.**, see Costantine, J., *LAWP 2009 943-946*
- Christodoulou, C. G.**, see Costantine, J., *LAWP 2009 1072-1075*
- Chu, L. C. Y.**, Guha, D., and Antar, Y. M. M., Conformal Strip-Fed Shaped Cylindrical Dielectric Resonator: Improved Design of a Wideband Wireless Antenna; *LAWP 2009 482-485*
- Chua, K. M.**, see Sun, M., *LAWP 2009 1364-1366*
- Chuang, W.-H.**, see Chiu, C.-N., *LAWP 2009 624-626*
- Chung, Y.**, see Rhyu, H., *LAWP 2009 453-456*
- Chung, Y.-S.**, see Choi, N., *LAWP 2009 580-582*
- Cicolani, M.**, see D'Urso, M., *LAWP 2009 449-452*
- Coburn, W. O.**, and Fazi, C., A Lumped-Circuit Model for a Triband Trapped Dipole Array Part I: Model Description; *LAWP 2009 14-18*
- Coetzee, J. C.**, and Yu, Y., Design of Decoupling Networks for Circulant Symmetric Antenna Arrays; *LAWP 2009 291-294*
- Collardey, S.**, see Vu, T.-H., *LAWP 2009 248-252*
- Colombel, F.**, see Palud, S., *LAWP 2009 96-99*
- Colombel, F.**, see Abdallah, M., *LAWP 2009 732-735*
- Coquet, P.**, see Hage-Ali, S., *LAWP 2009 1306-1309*
- Coquet, Ph.**, see Tentillier, N., *LAWP 2009 701-704*
- Corcoles, J.**, Gonzalez, M. A., and Rubio, J., Mutual Coupling Compensation in Arrays Using a Spherical Wave Expansion of the Radiated Field; *LAWP 2009 108-111*
- Corcoles, J.**, see Rubio, J., *LAWP 2009 819-822*
- Costa, F.**, Genovesi, S., and Monorchio, A., On the Bandwidth of High-Impedance Frequency Selective Surfaces; *LAWP 2009 1341-1344*
- Costa, J. R.**, see Medeiros, C. R., *LAWP 2009 661-664*
- Costantine, J.**, Al-Saffar, S., Christodoulou, C. G., Kabalan, K. Y., and El-Hajj, A., The Analysis of a Reconfigurable Antenna With a Rotating Feed Using Graph Models; *LAWP 2009 943-946*
- Costantine, J.**, Christodoulou, C. G., Abdallah, C. T., and Barbin, S. E., Optimization and Complexity Reduction of Switch-Reconfigured Antennas Using Graph Models; *LAWP 2009 1072-1075*
- Costanzo, S.**, see Caminita, F., *LAWP 2009 811-814*
- Craddock, I. J.**, see Klemm, M., *LAWP 2009 1349-1352*
- Cummer, S. A.**, see Hand, T. H., *LAWP 2009 262-265*

D

- D'Amico, M.**, see Piazza, D., *LAWP 2009 830-834*
- d'Amore, G.**, see Trincherio, D., *LAWP 2009 224-227*
- d'Amore, G.**, see Trincherio, D., *LAWP 2009 494-497*
- d'Inzeo, G.**, see Liberti, M., *LAWP 2009 865-868*
- D'Urso, M.**, see Isernia, T., *LAWP 2009 169-172*
- D'Urso, M.**, Prisco, G., and Cicolani, M., Synthesis of Plane-Wave Generators via Nonredundant Sparse Arrays; *LAWP 2009 449-452*
- Dadashzadeh, G.**, see Dadgarpour, A., *LAWP 2009 1135-1138*
- Dadgarpour, A.**, Dadashzadeh, G., Naser-Moghadasi, M., and Jolani, F., Design and Optimization of Compact Balanced Antipodal Staircase Bow-Tie Antenna; *LAWP 2009 1135-1138*
- Dahman, G. S.**, Bultitude, R. J. C., and Hafez, R. H. M., The Use of Frequency-Orthogonal Pseudonoise (FOPN) Sounding Signals for Identifying Transmissions From Different Transmit Antennas; *LAWP 2009 657-660*
- Dall'omo, C.**, see Chreim, H., *LAWP 2009 665-669*
- Dandekar, K. R.**, see Piazza, D., *LAWP 2009 830-834*
- Das Gupta, J. D.**, Suzuki, H., and Ziri-Castro, K., Effect of Pedestrian Movement on MIMO-OFDM Channel Capacity in an Indoor Environment; *LAWP 2009 682-685*
- de Cos, M. E.**, Heras, F. L., and Franco, M., Design of Planar Artificial Magnetic Conductor Ground Plane Using Frequency-Selective Surfaces for Frequencies Below 1 GHz; *LAWP 2009 951-954*
- De Flaviis, F.**, see Liu, Y., *LAWP 2009 271-274*
- de Jongh, M.**, see Liu, Z., *LAWP 2009 311-314*
- De Vita, F.**, see De Vita, P., *LAWP 2009 104-107*
- De Vita, P.**, De Vita, F., Di Maria, A., and Freni, A., An Efficient Technique for the Analysis of Large Multilayered Printed Arrays; *LAWP 2009 104-107*
- Debiasi, L.**, see Azaro, R., *LAWP 2009 905-908*
- Decroze, C.**, see Akhdar, O., *LAWP 2009 478-481*
- Decroze, C.**, see Huitema, L., *LAWP 2009 1021-1027*
- Deepu, V.**, see Sarin, V. P., *LAWP 2009 779-781*
- Degauque, P.**, see Molina-Garcia-Pardo, J.-M., *LAWP 2009 1186-1189*
- Deng, C.**, and Xie, Y.-J., Design of Resistive Loading Vivaldi Antenna; *LAWP 2009 240-243*
- Deng, C.**, Xie, Y., and Li, P., CPW-Fed Planar Printed Monopole Antenna With Impedance Bandwidth Enhanced; *LAWP 2009 1394-1397*
- Deng, L.**, see Chen, H., *LAWP 2009 1231-1233*
- Denidni, T. A.**, see Liang, X.-L., *LAWP 2009 367-370*
- Denidni, T. A.**, see Edalati, A., *LAWP 2009 1087-1090*
- Deo, P.**, Mehta, A., Mirshekar-Syahkal, D., and Nakano, H., An HIS-Based Spiral Antenna for Pattern Reconfigurable Applications; *LAWP 2009 196-199*
- Deshmukh, A. A.**, and Ray, K. P., Compact Broadband Slotted Rectangular Microstrip Antenna; *LAWP 2009 1410-1413*
- Dey, R.**, see Sharma, S. B., *LAWP 2009 861-864*
- Di Maria, A.**, see De Vita, P., *LAWP 2009 104-107*
- Di Massa, G.**, see Caminita, F., *LAWP 2009 811-814*
- Dienstfrey, A.**, see Gordon, J. A., *LAWP 2009 1127-1130*
- Dieter, S.**, and Menzel, W., High-Resolution Probes for Near-Field Measurements of Reflectarray Antennas; *LAWP 2009 157-160*
- Ding, W.**, and Wang, G., Treatment of Singular Integrals on Generalized Curvilinear Parametric Quadrilaterals in Higher Order Method of Moments; *LAWP 2009 1310-1313*
- Ding, Y.**, and Wu, K., A 4×4 Ridge Substrate Integrated Waveguide (RSIW) Slot Array Antenna; *LAWP 2009 561-564*
- Ding, Z.-F.**, see Pang, J.-Y., *LAWP 2009 1223-1226*
- Dissanayake, T.**, Yuce, M. R., and Ho, C., Design and Evaluation of a Compact Antenna for Implant-to-Air UWB Communication; *LAWP 2009 153-156*
- Dominguez-Casas, B. A.**, see Alvarez, Y., *LAWP 2009 375-378*

- Dong, J.**, *see* Zaghoul, A. I., *LAWP 2009 985-988*
Dong, J., Li, Q., and Guo, W., A Combinatorial Method for Antenna Array Design in Minimum Redundancy MIMO Radars; *LAWP 2009 1150-1153*
Dorsey, W. M., Zaghoul, A. I., and Parent, M. G., Perturbed Square-Ring Slot Antenna With Reconfigurable Polarization; *LAWP 2009 603-606*
Drouet, J., *see* Serhal, D., *LAWP 2009 620-623*
Du, K., *see* Ogucu, G., *LAWP 2009 457-460*
Du, L., Chen, R. S., Ye, Z. B., and Yang, Y., A Further Study on the Use of the Alternating-Direction Implicit Scheme for the Finite-Element Time-Domain Method; *LAWP 2009 775-778*
Du, Z., *see* Li, Z., *LAWP 2009 1317-1320*
Du, Z., *see* Cai, Y., *LAWP 2009 1227-1230*
Duan, Z., *see* Zhou, H., *LAWP 2009 538-541*
Dufrane, P., *see* Chreim, H., *LAWP 2009 665-669*
Dumon, P., *see* Menudier, C., *LAWP 2009 315-318*
Dumon, P., *see* Menudier, C., *LAWP 2009 611-615*
Dyskin, A., *see* Pazin, L., *LAWP 2009 27-29*

E

- Edalati, A.**, and Denidni, T. A., Reconfigurable Beamwidth Antenna Based on Active Partially Reflective Surfaces; *LAWP 2009 1087-1090*
Egorov, V. M., *see* Gorbachev, A. P., *LAWP 2009 1091-1093*
Ehtezazi, I. A., *see* Hailu, D. M., *LAWP 2009 37-39*
Eid, A. M., and Wallace, J. W., Ultrawideband Speech Sensing; *LAWP 2009 1414-1417*
El-Ghazaly, S., *see* Zhang, C., *LAWP 2009 216-219*
El-Hajj, A., *see* Costantine, J., *LAWP 2009 943-946*
El-Shenawee, M., *see* Hassan, A. M., *LAWP 2009 1218-1222*
Eleftheriades, G. V., *see* Zhu, J., *LAWP 2009 295-298*
Eleftheriades, G. V., *see* Antoniadis, M. A., *LAWP 2009 258-261*
Eleftheriades, G. V., *see* Markley, L., *LAWP 2009 1025-1028*
Elhenawy, H., *see* Elsheakh, D. N., *LAWP 2009 959-962*
Elhenawy, H., *see* Elsheakh, D. N., *LAWP 2009 1255-1258*
Elsadek, H. A., *see* Elsheakh, D. N., *LAWP 2009 959-962*
Elsadek, H. A., *see* Elsheakh, D. N., *LAWP 2009 1255-1258*
Elsheakh, D. N., Elsheakh, H. A., Abdallah, E. A., Elhenawy, H., and Iskander, M. F., Enhancement of Microstrip Monopole Antenna Bandwidth by Using EBG Structures; *LAWP 2009 959-962*
Elsheakh, D. N., Elsheakh, H. A., Abdallah, E. A., Iskander, M. F., and Elhenawy, H., Ultrawide Bandwidth Umbrella-Shaped Microstrip Monopole Antenna Using Spiral Artificial Magnetic Conductor (SAMC); *LAWP 2009 1255-1258*
Elsherbini, A., and Sarabandi, K., Directive Coupled Sectorial Loops Antenna for Ultrawideband Applications; *LAWP 2009 576-579*
Eltawil, A. M., *see* Sukumar, C. R., *LAWP 2009 873-876*
Eom, H. J., *see* Ock, J. S., *LAWP 2009 40-43*
Eom, H. J., *see* Paek, J. K., *LAWP 2009 852-855*
Ergul, ., van den Bosch, I., and Gurel, L., Two-Step Lagrange Interpolation Method for the Multilevel Fast Multipole Algorithm; *LAWP 2009 69-71*
Eslami, H., *see* Sukumar, C. R., *LAWP 2009 873-876*
Eul, H., *see* Kaldjob, E. B., *LAWP 2009 193-195*

F

- Fang, S.**, *see* Wang, Z., *LAWP 2009 100-103*
Fang, S., *see* Fu, S., *LAWP 2009 1014-1016*
Fang, Y., Wu, L., and Zhang, J., Excitation of Plane Waves for FDTD Analysis of Anisotropic Layered Media; *LAWP 2009 414-417*
Fathy, A. E., *see* Zhang, C., *LAWP 2009 216-219*
Fathy, A. E., *see* Awida, M. H., *LAWP 2009 1054-1056*
Fazi, C., *see* Coburn, W. O., *LAWP 2009 14-18*
Felic, G., and Skafidas, S., Flip-Chip Interconnection Effects on 60-GHz Microstrip Antenna Performance; *LAWP 2009 283-286*
Feng, Q., *see* Huang, C., *LAWP 2009 912-915*
Feng, Z., *see* Wang, X., *LAWP 2009 209-211*
Feng, Z., *see* Chang, W., *LAWP 2009 348-351*
Feng, Z., *see* Zhong, H., *LAWP 2009 465-467*
Feng, Z., *see* Li, Y., *LAWP 2009 1069-1071*
Fernandes, C. A., *see* Medeiros, C. R., *LAWP 2009 661-664*
Fernandez, J.-M., *see* Rajo-Iglesias, E., *LAWP 2009 1402-1405*

- Fhager, A.**, Padhi, S. K., and Howard, J., 3D Image Reconstruction in Microwave Tomography Using an Efficient FDTD Model; *LAWP 2009 1353-1356*
Filipovic, D. S., *see* Zhou, H., *LAWP 2009 1321-1324*
Fiorelli, B., *see* Trinchero, D., *LAWP 2009 30-33*
Fiorelli, B., *see* Trinchero, D., *LAWP 2009 224-227*
Fiorelli, B., *see* Trinchero, D., *LAWP 2009 494-497*
Fitzek, F., and Rashed, R. H., Automotive Radome Design Reflection Reduction of Stratified Media; *LAWP 2009 1076-1079*
Flemish, J., *see* Haupt, R. L., *LAWP 2009 1288-1290*
Floch, J.-M., *see* Rmili, H., *LAWP 2009 328-331*
Fonseca, N. J. G., *see* Hebib, S., *LAWP 2009 352-355*
Forero Pedraza, H. A., *see* Bohorquez, J. C., *LAWP 2009 1139-1142*
Foroozesh, A., and Shafai, L., Effects of Artificial Magnetic Conductors in the Design of Low-Profile High-Gain Planar Antennas With High-Permittivity Dielectric Superstrate; *LAWP 2009 10-13*
Franco, M., *see* de Cos, M. E., *LAWP 2009 951-954*
Franson, S. J., and Ziolkowski, R. W., Confirmation of Zero-N Behavior in a High Gain Grid Structure at Millimeter-Wave Frequencies; *LAWP 2009 387-390*
Freni, A., *see* De Vita, P., *LAWP 2009 104-107*
Freundorfer, A. P., *see* Podilchak, S. K., *LAWP 2009 371-374*
Frezza, F., *see* Valerio, G., *LAWP 2009 674-677*
Frohlich, J., *see* Almpanis, G., *LAWP 2009 279-282*
Fu, S., *see* Wang, Z., *LAWP 2009 100-103*
Fu, S., Fang, S., Wang, Z., and Li, X., Broadband Circularly Polarized Slot Antenna Array Fed by Asymmetric CPW for L-Band Applications; *LAWP 2009 1014-1016*
Fu, Y., and Yuan, N., EBG-Based Circular Waveguide Rod Arrays With Improved Scanning Characteristics; *LAWP 2009 705-707*
Fujita, H., *see* Hage-Ali, S., *LAWP 2009 1306-1309*
Fumeaux, C., *see* Almpanis, G., *LAWP 2009 279-282*
Furuno, T., *see* Li, L., *LAWP 2009 881-885*
Fusco, V. F., and Buchanan, N. B., Retrodirective Antenna Spatial Data Protection; *LAWP 2009 490-493*
Fusco, V. F., *see* Zelenchuk, D. E., *LAWP 2009 1314-1316*

G

- Galardini, A.**, *see* Trinchero, D., *LAWP 2009 30-33*
Galardini, A., *see* Trinchero, D., *LAWP 2009 224-227*
Galardini, A., *see* Trinchero, D., *LAWP 2009 494-497*
Galehdar, A., Thiel, D. V., and O'Keefe, S. G., Tapered Meander Line Antenna for Maximum Efficiency and Minimal Environmental Impact; *LAWP 2009 244-247*
Galli, A., *see* Valerio, G., *LAWP 2009 674-677*
Ganatsos, T., *see* Siakavara, K., *LAWP 2009 124-128*
Garcia-Pardo, C., *see* Rodriguez, J.-V., *LAWP 2009 977-980*
Garcia, A. P., *see* Rubio, L., *LAWP 2009 509-512*
Garcia, C., *see* Alvarez, Y., *LAWP 2009 375-378*
Garcia-Munoz, L. E., *see* Herraiz-Martinez, F. J., *LAWP 2009 137-140*
Garcia-Pardo, C., *see* Molina-Garcia-Pardo, J.-M., *LAWP 2009 1186-1189*
Garcia-Pino, A., *see* Grana-Varela, M., *LAWP 2009 839-842*
Geck, B., *see* Kaldjob, E. B., *LAWP 2009 193-195*
Gemio, J., Parron Granados, J., and Soler Castany, J., Dual-Band Antenna With Fractal-Based Ground Plane for WLAN Applications; *LAWP 2009 748-751*
Gemio, J., Junkin, G., Parron, J., and Villarino, R., Resonator-Loaded Dual-Band Monopole for Universal WLAN; *LAWP 2009 736-739*
Geng, S., and Vainikainen, P., Millimeter-Wave Propagation in Indoor Corridors; *LAWP 2009 1242-1245*
Genovesi, S., *see* Costa, F., *LAWP 2009 1341-1344*
Gerini, G., *see* Monni, S., *LAWP 2009 220-223*
Ghanbari, G., *see* Ojaroudi, M., *LAWP 2009 1061-1064*
Gheethan, A. A., *see* Anagnostou, D. E., *LAWP 2009 1057-1060*
Ghobadi, C., *see* Ojaroudi, M., *LAWP 2009 728-731*
Ghobadi, C., *see* Ojaroudi, M., *LAWP 2009 1061-1064*
Gianola, P., *see* Trinchero, D., *LAWP 2009 30-33*
Gibbins, D., *see* Klemm, M., *LAWP 2009 1349-1352*
Gil, J. M., *see* Martinez-Fernandez, J., *LAWP 2009 517-521*
Gilbert, B., *see* Zhang, J., *LAWP 2009 53-56*
Gillard, R., *see* Salti, H., *LAWP 2009 363-366*
Gillard, R., *see* Jamaluddin, M. H., *LAWP 2009 697-700*
Glower, J., *see* Braaten, B. D., *LAWP 2009 1158-1161*

- Goldsmann, N.**, *see* Yang, B., *LAWP 2009 181-184*
- Gomez, N. G.**, Rodriguez, J. J., Melde, K. L., and McNeill, K. M., Design of Low-Sidelobe Linear Arrays With High Aperture Efficiency and Interference Nulls; *LAWP 2009 607-610*
- Gong, K.**, *see* Li, Z., *LAWP 2009 1317-1320*
- Gong, S.**, *see* Jiang, W., *LAWP 2009 1275-1278*
- Gong, Y.**, *see* Liao, S., *LAWP 2009 80-83*
- Gonzalez de Aza, M.**, *see* Rubio, J., *LAWP 2009 819-822*
- Gonzalez, M. A.**, *see* Corcoles, J., *LAWP 2009 108-111*
- Gonzalez, O.**, *see* Pereda, J. A., *LAWP 2009 724-727*
- Gonzalez-Arbesu, J. M.**, *see* Miskovsky, P., *LAWP 2009 72-75*
- Gonzalez-Ovejero, D.**, *see* Herraiz-Martinez, F. J., *LAWP 2009 137-140*
- Gonzalez-Posadas, V.**, *see* Herraiz-Martinez, F. J., *LAWP 2009 137-140*
- Gorbachev, A. P.**, and Egorov, V. M., A Modified Planar Quasi-Yagi Antenna for Wireless Communication Applications; *LAWP 2009 1091-1093*
- Gordon, J. A.**, Holloway, C. L., and Dienstfrey, A., A Physical Explanation of Angle-Independent Reflection and Transmission Properties of Metafilms/Metasurfaces; *LAWP 2009 1127-1130*
- Grana-Varela, M.**, Arias-Acuna, M., Rubinos, O., and Garcia-Pino, A., Shaped Solid Contour Beam Reflector Antennas That Adjust to Varying Operating Conditions With Just a Few Mechanical Actuators; *LAWP 2009 839-842*
- Grande, A.**, *see* Pereda, J. A., *LAWP 2009 724-727*
- Grbic, A.**, *see* Imani, M. F., *LAWP 2009 421-424*
- Gregor, R. B.**, Parazzoli, C. G., Nielsen, J. A., Tanielian, M. H., Vier, D. C., Schultz, S., Holloway, C. L., and Ziolkowski, R. W., Demonstration of Impedance Matching Using a mu-Negative (MNG) Metamaterial; *LAWP 2009 92-95*
- Gruden, M.**, *see* Hallbjorner, P., *LAWP 2009 1111-1114*
- Gu, C.**, *see* Yuan, J., *LAWP 2009 716-719*
- Guarnieri, G.**, *see* Caminita, F., *LAWP 2009 811-814*
- Guarnizo, H. F.**, *see* Bohorquez, J. C., *LAWP 2009 1139-1142*
- Guha, D.**, *see* Chu, L. C. Y., *LAWP 2009 482-485*
- Guha, D.**, Kumar, C., and Pal, S., Improved Cross-Polarization Characteristics of Circular Microstrip Antenna Employing Arc-Shaped Defected Ground Structure (DGS); *LAWP 2009 1367-1369*
- Guha, D.**, Gupta, B., and Antar, Y. M. M., New Pawn-Shaped Dielectric Ring Resonator Loaded Hybrid Monopole Antenna for Improved Ultrawide Bandwidth; *LAWP 2009 1178-1181*
- Guo, L.**, Wang, S., Chen, X., and Parini, C., A Small Printed Quasi-Self-Complementary Antenna for Ultrawideband Systems; *LAWP 2009 554-557*
- Guo, W.**, *see* Dong, J., *LAWP 2009 1150-1153*
- Guo, Y. X.**, *see* Sun, M., *LAWP 2009 1364-1366*
- Guo, Y.-X.**, and Tan, D. C. H., Wideband Single-Feed Circularly Polarized Patch Antenna With Conical Radiation Pattern; *LAWP 2009 924-926*
- Gupta, B.**, *see* Guha, D., *LAWP 2009 1178-1181*
- Gurel, L.**, *see* Ergul, ., *LAWP 2009 69-71*
- ## H
- Hafez, R. H. M.**, *see* Dahman, G. S., *LAWP 2009 657-660*
- Hage-Ali, S.**, Tiercelin, N., Coquet, P., Sauleau, R., Fujita, H., Preobrazhensky, V., and Pernod, P., A Millimeter-Wave Microstrip Antenna Array on Ultra-Flexible Micromachined Polydimethylsiloxane (PDMS) Polymer; *LAWP 2009 1306-1309*
- Hailu, D. M.**, Ehtezazi, I. A., and Safavi-Naeini, S., Fast Analysis of Terahertz Integrated Lens Antennas Employing the Spectral Domain Ray Tracing Method; *LAWP 2009 37-39*
- Hajihashemi, M. R.**, *see* Hassan, A. M., *LAWP 2009 1218-1222*
- Hajj, M.**, Rodes, E., and Monediere, T., Dual-Band EBG Sectoral Antenna Using a Single-Layer FSS for UMTS Application; *LAWP 2009 161-164*
- Hajj, M.**, *see* Chreim, H., *LAWP 2009 665-669*
- Hajj, M.**, Serhal, D., Chantalat, R., and Jecko, B., New Development Around M-PRS Antennas for Sectoral Coverage of Telecommunication Networks With Dual Polarization; *LAWP 2009 670-673*
- Hajj, M.**, *see* Serhal, D., *LAWP 2009 620-623*
- Hallbjorner, P.**, Gruden, M., and Jobs, M., Broadband Space Time Measurements in Reverberation Chamber Including Comparison With Real Environment; *LAWP 2009 1111-1114*
- Han, G.**, *see* Zuo, J., *LAWP 2009 141-144*
- Han, G.**, Zhang, W., and Zhang, Y. P., An Experiment Study of the Propagation of Radio Waves in a Scaled Model of Long-Wall Coal Mining Tunnels; *LAWP 2009 502-504*
- Han, G.**, *see* Yuan, J., *LAWP 2009 716-719*
- Hand, T. H.**, and Cummer, S. A., Controllable Magnetic Metamaterial Using Digitally Addressable Split-Ring Resonators; *LAWP 2009 262-265*
- Haneda, K.**, *see* Poutanen, J., *LAWP 2009 1190-1193*
- Hanlen, L. W.**, *see* Zhang, J., *LAWP 2009 53-56*
- Hao, C.-X.**, *see* Li, B., *LAWP 2009 1036-1038*
- Harackiewicz, F. J.**, *see* Choi, N., *LAWP 2009 580-582*
- Hassan, A. M.**, Hajihashemi, M. R., El-Shenawee, M., Al-Zoubi, A., and Kishk, A. A., Drift Denoising of Experimental TE Measurements for Imaging 2D PEC Cylinders; *LAWP 2009 1218-1222*
- Hassani, H. R.**, *see* Abbaspour, M., *LAWP 2009 394-397*
- Hassani, H. R.**, *see* Mazinani, S. M., *LAWP 2009 1123-1126*
- Haupt, R. L.**, *see* Rocca, P., *LAWP 2009 437-440*
- Haupt, R. L.**, Flemish, J., and Aten, D., Broadband Linear Array With Photoconductive Weights; *LAWP 2009 1288-1290*
- He, J.**, and Liu, Z., Extended Aperture 2-D Direction Finding With a Two-Parallel-Shape-Array Using Propagator Method; *LAWP 2009 323-327*
- He, M.**, Chen, Q., Yuan, Q., Sawaya, K., and Xu, X., A Simple Strip Model in the Volume-Surface Integral Equation for Analysis of Arbitrary Probe-Fed Conformal Microstrip Antennas; *LAWP 2009 530-533*
- He, S.**, *see* Xiong, J., *LAWP 2009 1006-1009*
- He, S.**, *see* Li, H., *LAWP 2009 1107-1110*
- He, S.**, *see* Zhang, S., *LAWP 2009 1279-1282*
- He, X.**, Hong, S., Xiong, H., Zhang, Q., and Tentzeris, E. M. M., Design of a Novel High-Gain Dual-Band Antenna for WLAN Applications; *LAWP 2009 798-801*
- Hebib, S.**, Aubert, H., Pascal, O., Fonseca, N. J. G., Ries, L., and Lopez, J.-M. E., Sierpinski Pyramidal Antenna Loaded With a Cutoff Open-Ended Waveguide; *LAWP 2009 352-355*
- Hei, Y. Q.**, *see* Li, W. T., *LAWP 2009 1094-1098*
- Heras, F. L.**, *see* de Cos, M. E., *LAWP 2009 951-954*
- Herraiz-Martinez, F. J.**, Garcia-Munoz, L. E., Gonzalez-Ovejero, D., Gonzalez-Posadas, V., and Segovia-Vargas, D., Dual-Frequency Printed Dipole Loaded With Split Ring Resonators; *LAWP 2009 137-140*
- Himdi, M.**, *see* Palud, S., *LAWP 2009 96-99*
- Himdi, M.**, *see* Abdallah, M., *LAWP 2009 732-735*
- Himdi, M.**, *see* Vettikalladi, H., *LAWP 2009 1422-1425*
- Ho, C.**, *see* Dissanayake, T., *LAWP 2009 153-156*
- Ho, S. L.**, and Yang, S., Multiobjective Synthesis of Antenna Arrays Using a Vector Tabu Search Algorithm; *LAWP 2009 947-950*
- Hodges, D. D.**, *see* Townsend, A. J., *LAWP 2009 1210-1213*
- Holloway, C. L.**, *see* Gregor, R. B., *LAWP 2009 92-95*
- Holloway, C. L.**, Kuester, E. F., and Novotny, D., Waveguides Composed of Metafilms/Metasurfaces: The Two-Dimensional Equivalent of Metamaterials; *LAWP 2009 525-529*
- Holloway, C. L.**, *see* Ziolkowski, R. W., *LAWP 2009 1329-1333*
- Holloway, C. L.**, *see* Ziolkowski, R. W., *LAWP 2009 989-993*
- Holloway, C. L.**, *see* Gordon, J. A., *LAWP 2009 1127-1130*
- Holopainen, J.**, Ilvonen, J., Kivekas, O., Valkonen, R., Icheln, C., and Vainikainen, P., Near-Field Control of Handset Antennas Based on Inverted-Top Wavetraps: Focus on Hearing-Aid Compatibility; *LAWP 2009 592-595*
- Hong, S.**, *see* He, X., *LAWP 2009 798-801*
- Hong, T.**, *see* Jiang, W., *LAWP 2009 1275-1278*
- Hong, W.**, *see* Chen, P., *LAWP 2009 120-123*
- Hong, W.**, *see* Li, W.-D., *LAWP 2009 630-633*
- Hong, W.**, *see* Li, W.-D., *LAWP 2009 782-785*
- Hou, X.**, *see* Chen, H., *LAWP 2009 1231-1233*
- Howard, J.**, *see* Fhager, A., *LAWP 2009 1353-1356*
- Hsieh, H.-W.**, Lee, Y.-C., Tiong, K.-K., and Sun, J.-S., Design of a Multiband Antenna for Mobile Handset Operations; *LAWP 2009 200-203*
- Hsieh, P.-C.**, *see* Liao, T.-H., *LAWP 2009 835-838*
- Hsieh, P.-H.**, and Chen, F.-C., A New Spatial Correlation Formulation of Arbitrary AoA Scenarios; *LAWP 2009 398-401*
- Hsu, J. C.**, *see* Lao, R.-R., *LAWP 2009 76-79*
- Hsu, M.-H.**, *see* Lee, Y.-C., *LAWP 2009 356-358*
- Hsu, P.**, *see* Lee, C.-H., *LAWP 2009 1033-1035*
- Hsu, P.**, *see* Lee, C.-H., *LAWP 2009 963-965*
- Hu, B.-J.**, *see* Li, X.-S., *LAWP 2009 756-758*
- Hu, X.-D.**, Zhou, X.-L., Wu, L.-S., Zhou, L., and Yin, W.-Y., A Miniaturized Dual-Band Frequency Selective Surface (FSS) With Closed Loop and Its Complementary Pattern; *LAWP 2009 1374-1377*
- Huang, B.-K.**, *see* Zhao, A.-X., *LAWP 2009 275-278*

- Huang, C.**, Zhao, Z., Feng, Q., Wang, C., and Luo, X., Grooves-Assisted Surface Wave Modulation in Two-Slot Array for Mutual Coupling Reduction and Gain Enhancement; *LAWP 2009 912-915*
- Huang, C.-C.**, see Lee, J.-H., *LAWP 2009 1406-1409*
- Huang, C.-H.**, see Lin, W.-P., *LAWP 2009 228-231*
- Huang, Y.**, see Chattha, H. T., *LAWP 2009 637-640*
- Huang, Y.**, see Chattha, H. T., *LAWP 2009 856-860*
- Huff, G. H.**, and McDonald, J. J., A Spherical Inverted-F Antenna (SIFA); *LAWP 2009 649-652*
- Hui, H. T.**, Influence of Antenna Characteristics on MIMO Systems With Compact Monopole Arrays; *LAWP 2009 133-136*
- Huitema, L.**, Koubeissi, M., Decroze, C., and Monediere, T., Ultrawideband Dielectric Resonator Antenna for DVB-H and GSM Applications; *LAWP 2009 1021-1027*
- Hung, C.-C.**, see Chen, I.-F., *LAWP 2009 994-997*
- Hwang, H.-Y.**, see Jang, J.-W., *LAWP 2009 299-302*
- Hwang, J.-H.**, and Oh, Y., Millimeter-Wave Waveguide Slot-Array Antenna Covered by a Dielectric Slab and Arrayed Patches; *LAWP 2009 1050-1053*

I

- Icheln, C.**, see Holopainen, J., *LAWP 2009 592-595*
- Icheln, C.**, see Ranvier, S., *LAWP 2009 686-689*
- Ilic, M. M.**, and Notaros, B. M., Higher Order FEM-MoM Domain Decomposition for 3-D Electromagnetic Analysis; *LAWP 2009 970-973*
- Iivonen, J.**, see Holopainen, J., *LAWP 2009 592-595*
- Im, Y.-T.**, Kim, J.-H., and Park, W.-S., Matching Techniques for Miniaturized UHF RFID Loop Antennas; *LAWP 2009 266-270*
- Imani, M. F.**, and Grbic, A., Near-Field Focusing With a Corrugated Surface; *LAWP 2009 421-424*
- Isernia, T.**, D'Urso, M., and Bucci, O. M., A Simple Idea for an Effective Sub-Array of Large Planar Sources; *LAWP 2009 169-172*
- Isernia, T.**, see Bucci, O. M., *LAWP 2009 1386-1389*
- Iskander, M. F.**, see Lim, S., *LAWP 2009 88-91*
- Iskander, M. F.**, see Celik, N., *LAWP 2009 236-239*
- Iskander, M. F.**, see Yun, Z., *LAWP 2009 587-591*
- Iskander, M. F.**, see Lim, S. Y., *LAWP 2009 583-586*
- Iskander, M. F.**, see Elsheakh, D. N., *LAWP 2009 959-962*
- Iskander, M. F.**, see Li, Y., *LAWP 2009 1069-1071*
- Iskander, M. F.**, see Elsheakh, D. N., *LAWP 2009 1255-1258*
- Iskander, M. F. I.**, see Zhong, H., *LAWP 2009 465-467*
- Ivashina, M. V.**, see Maaskant, R., *LAWP 2009 1166-1170*

J

- Jamaluddin, M. H.**, Gillard, R., Sauleau, R., and Milon, M.-A., Perturbation Technique to Analyze Mutual Coupling in Reflectarrays; *LAWP 2009 697-700*
- Janaswamy, R.**, Transparent Boundary Condition for the Parabolic Equation Modeled by the 4RW; *LAWP 2009 23-26*
- Jang, J.-W.**, and Hwang, H.-Y., An Improved Band-Rejection UWB Antenna With Resonant Patches and a Slot; *LAWP 2009 299-302*
- Jecko, B.**, see Chreim, H., *LAWP 2009 665-669*
- Jecko, B.**, see Hajj, M., *LAWP 2009 670-673*
- Jecko, B.**, see Serhal, D., *LAWP 2009 620-623*
- Jeffrey, I.**, see Aronsson, J., *LAWP 2009 425-428*
- Jeng, S.-K.**, see Lai, M.-I., *LAWP 2009 19-22*
- Ji, J. K.**, Kim, G. H., and Seong, W. M., A Compact Multiband Antenna Based on DNG ZOR for Wireless Mobile System; *LAWP 2009 920-923*
- Jiang, W.**, Liu, Y., Gong, S., and Hong, T., Application of Bionics in Antenna Radar Cross Section Reduction; *LAWP 2009 1275-1278*
- Jiao, Y.-C.**, see Li, Q.-Y., *LAWP 2009 1119-1122*
- Jin, P.**, see Ziolkowski, R. W., *LAWP 2009 1329-1333*
- Jin, Y.**, see Xiong, J., *LAWP 2009 1006-1009*
- Jobs, M.**, see Hallbjorner, P., *LAWP 2009 1111-1114*
- Jofre, L.**, see Yildirim, B. S., *LAWP 2009 149-152*
- Johnston, R. H.**, see Sutinjo, A., *LAWP 2009 550-553*
- Johnston, R. H.**, see Sutinjo, A., *LAWP 2009 1436*
- Jolani, F.**, see Dadgarpour, A., *LAWP 2009 1135-1138*
- Jou, C. F.**, see Wu, J.-W., *LAWP 2009 1146-1149*
- Juan-Llacer, L.**, see Rodriguez, J.-V., *LAWP 2009 379-382*
- Juan-Llacer, L.**, see Rodriguez, J.-V., *LAWP 2009 977-980*
- Juan-Llacer, L.**, see Molina-Garcia-Pardo, J.-M., *LAWP 2009 1186-1189*

- Jung, C.**, see Rhyu, H., *LAWP 2009 453-456*
- Jung, C.**, see Choi, N., *LAWP 2009 580-582*
- Jung, S.**, see Lu, M., *LAWP 2009 204-208*
- Jung, Y.-B.**, see Moon, J.-I., *LAWP 2009 558-560*
- Junkin, G.**, see Gemio, J., *LAWP 2009 736-739*
- Justice, B. J.**, see Sajuyigbe, S., *LAWP 2009 1268-1271*

K

- Kabalan, K. Y.**, see Costantine, J., *LAWP 2009 943-946*
- Kaldjob, E. B.**, Geck, B., and Eul, H., Impedance Measurement of Properly Excited Small Balanced Antennas; *LAWP 2009 193-195*
- Kanatas, A. G.**, see Spiliotopoulos, C. G., *LAWP 2009 790-793*
- Kang, M.-S.**, see Park, B.-S., *LAWP 2009 1143-1145*
- Kanj, H.**, and Ali, S. M., Compact Multiband Folded 3-D Monopole Antenna; *LAWP 2009 185-188*
- Kanj, H.**, Lusina, P., Ali, S. M., and Kohandani, F., A 3D-to-2D Transform Algorithm for Incorporating 3D Antenna Radiation Patterns in SCM; *LAWP 2009 815-818*
- Kaunisto, R.**, see Liu, Z., *LAWP 2009 311-314*
- Kefauver, N. W.**, see Zhou, H., *LAWP 2009 1321-1324*
- Kettunen, H.**, see Sihvola, A., *LAWP 2009 542-545*
- Khalid, K.**, see You, K. Y., *LAWP 2009 1246-1249*
- Khan, S.**, see Sayem, A. T. M., *LAWP 2009 49-52*
- Kildal, P.-S.**, Alfonso, E., Valero-Nogueira, A., and Rajo-Iglesias, E., Local Metamaterial-Based Waveguides in Gaps Between Parallel Metal Plates; *LAWP 2009 84-87*
- Kildal, P.-S.**, see Yang, J., *LAWP 2009 64-68*
- Kildal, P.-S.**, see Chen, X., *LAWP 2009 678-681*
- Kim, B.**, see Nguyen, T. K., *LAWP 2009 57-59*
- Kim, G. H.**, see Ji, J. K., *LAWP 2009 920-923*
- Kim, J.**, see Bae, H. R., *LAWP 2009 1345-1348*
- Kim, J. H.**, Cho, W. W., and Park, W. S., A Small Dual-Band Inverted-F Antenna With a Twisted Line; *LAWP 2009 307-310*
- Kim, J. H.**, and Park, W. S., Sectoral Conical Beam Former for a 2×2 Array Antenna; *LAWP 2009 712-715*
- Kim, J. H.**, Christodoulou, C. G., Ku, Z., Lin, C.-Y., Xin, Y.-C., Naderi, N. A., and Lester, L. F., Hybrid Integration of a Bowtie Slot Antenna and a Quantum Dot Mode-Locked Laser; *LAWP 2009 1337-1340*
- Kim, J.-H.**, see Im, Y.-T., *LAWP 2009 266-270*
- Kim, M.**, and Takada, J.-I., Statistical Model for 4.5-GHz Narrowband On-Body Propagation Channel With Specific Actions; *LAWP 2009 1250-1254*
- Kim, M.**, see Zhen, B., *LAWP 2009 1263-1267*
- Kim, T.**, see Rhyu, H., *LAWP 2009 453-456*
- Kim, T.**, see Choi, N., *LAWP 2009 580-582*
- Kishk, A. A.**, see Hassan, A. M., *LAWP 2009 1218-1222*
- Kivekas, O.**, see Holopainen, J., *LAWP 2009 592-595*
- Klemm, M.**, Leendertz, J. A., Gibbins, D., Craddock, I. J., Preece, A., and Benjamin, R., Microwave Radar-Based Breast Cancer Detection: Imaging in Inhomogeneous Breast Phantoms; *LAWP 2009 1349-1352*
- Ko, C.-H.**, Chiang, M.-J., and Sze, J.-Y., Miniaturized Planar Annular Slot Antenna Design Utilizing Shorting Conducting Strip; *LAWP 2009 1360-1363*
- Kodera, T.**, and Caloz, C., Dual-Band Full-Space Scanning Leaky-Wave Antenna Based on Ferrite-Loaded Open Waveguide; *LAWP 2009 1202-1205*
- Kohandani, F.**, see Kanj, H., *LAWP 2009 815-818*
- Kohandani, F.**, see Ali, S. M., *LAWP 2009 927-930*
- Kohno, R.**, see Zhen, B., *LAWP 2009 1263-1267*
- Kolmonen, V.-M.**, see Poutanen, J., *LAWP 2009 1190-1193*
- Komjani, N.**, see Albooyeh, M., *LAWP 2009 319-322*
- Kong, K.-B.**, and Park, S.-O., Analysis of Simplified SB-ADI Scheme for Two-Dimensional Maxwell's Equations; *LAWP 2009 1002-1005*
- Kong, N. F.**, see You, K. Y., *LAWP 2009 1246-1249*
- Kordzadeh, A.**, see Oloumi, D., *LAWP 2009 1214-1217*
- Kostka, D.**, and Abhari, R., Experimental Evaluations of Printed Circuit Board and On-Chip Inductors Backed by AMC Surfaces; *LAWP 2009 720-723*
- Koubeissi, M.**, see Huitema, L., *LAWP 2009 1021-1027*
- Koulouridis, S.**, and Volakis, J. L., A Novel Planar Conformal Antenna Designed With Splines; *LAWP 2009 34-36*
- Krasinski, F.**, see Tentillier, N., *LAWP 2009 701-704*
- Krogerus, J.**, see Liu, Z., *LAWP 2009 311-314*
- Ku, Z.**, see Kim, J. H., *LAWP 2009 1337-1340*
- Kuai, Z.**, see Chen, P., *LAWP 2009 120-123*

- Kuester, E. F.**, *see* Holloway, C. L., *LAWP 2009 525-529*
Kumar, C., Srinivasan, V. V., Lakshmeesha, V. K., and Pal, S., Novel Dual Circularly Polarized Radiating Element for Spherical Phased-Array Application; *LAWP 2009 826-829*
Kumar, C., *see* Guha, D., *LAWP 2009 1367-1369*
Kumar, C., Srinivasan, V. V., Lakshmeesha, V. K., and Pal, S., Performance of an Electrically Small Aperture, Axially Displaced Ellipse Reflector Antenna; *LAWP 2009 903-904*
Kwon, D.-H., and Werner, D. H., Beam Scanning Using Flat Transformation Electromagnetic Focusing Lenses; *LAWP 2009 1115-1118*

L

- Lafond, O.**, *see* Vettikalladi, H., *LAWP 2009 1422-1425*
Lai, C.-P., *see* Ren, Y.-J., *LAWP 2009 1302-1305*
Lai, D.-Y., *see* Wang, S.-Y., *LAWP 2009 522-524*
Lai, M.-I., and Jeng, S.-K., Slot Antennas With an Extended Ground for Multiple-Antenna Systems in Compact Wireless Devices; *LAWP 2009 19-22*
Lakshmeesha, V. K., *see* Kumar, C., *LAWP 2009 826-829*
Lakshmeesha, V. K., *see* Kumar, C., *LAWP 2009 903-904*
Lao, R.-R., Shay, W.-T., Hsu, J. C., and Tarn, J.-H., Optically Modulated Scatterer Technique for Radiation Pattern Measurement of Small Antennas and RFID Tags; *LAWP 2009 76-79*
Las-Heras, F., *see* Alvarez, Y., *LAWP 2009 375-378*
Las-Heras, F., *see* Laviada, J., *LAWP 2009 599-602*
Lau, K. L., Wong, S. H., and Luk, K. M., Wideband Folded Feed L-Slot Folded Patch Antenna; *LAWP 2009 340-343*
Laviada, J., Pino, M. R., and Las-Heras, F., Characteristic Spherical Wave Expansion With Application to Scattering and Radiation Problems; *LAWP 2009 599-602*
Law, C. L., *see* Zhang, Z., *LAWP 2009 1435*
Lazzi, G., Editorial: Status of AWPL; *LAWP 2009 1-2*
Le Coq, L., *see* Salti, H., *LAWP 2009 363-366*
Le Fur, G., Lemoine, C., Besnier, P., and Sharaiha, A., Performances of UWB Wheeler Cap and Reverberation Chamber to Carry Out Efficiency Measurements of Narrowband Antennas; *LAWP 2009 332-335*
Le Meins, C., *see* Palud, S., *LAWP 2009 96-99*
Le Ray, G., *see* Abdallah, M., *LAWP 2009 732-735*
Lee, A.-K., Internal Resistance of Voltage Source by Use of the Finite-Difference Time-Domain Technique; *LAWP 2009 1194-1197*
Lee, B., *see* Rhyu, H., *LAWP 2009 453-456*
Lee, B., *see* Choi, N., *LAWP 2009 580-582*
Lee, B., *see* Park, M.-J., *LAWP 2009 565-567*
Lee, C.-H., Chen, S.-Y., and Hsu, P., Efficiency-Enhanced and Size-Reduced Coupled Twin Slots Capacitively Fed by Conductor-Backed Coplanar Waveguide; *LAWP 2009 1033-1035*
Lee, C.-H., Chen, S.-Y., and Hsu, P., Integrated Dual Planar Inverted-F Antenna With Enhanced Isolation; *LAWP 2009 963-965*
Lee, H. R., Ryu, H. K., Lim, S., and Woo, J. M., A Miniaturized, Dual-Band, Circularly Polarized Microstrip Antenna for Installation Into Satellite Mobile Phones; *LAWP 2009 823-825*
Lee, J. W., *see* Bae, H. R., *LAWP 2009 1345-1348*
Lee, J.-H., and Huang, C.-C., Blind Adaptive Beamforming for Cyclostationary Signals: A Subspace Projection Approach; *LAWP 2009 1406-1409*
Lee, J.-M., *see* Park, B.-S., *LAWP 2009 1143-1145*
Lee, S.-G., *see* Park, B.-S., *LAWP 2009 1143-1145*
Lee, S.-J., *see* Baek, Y.-H., *LAWP 2009 909-911*
Lee, Y.-C., Sun, J.-S., Hsu, M.-H., and Chen, R.-H., A New Printed Slot Loop Antenna With Tunable Strips for 2.4- and 5-GHz Wireless Applications; *LAWP 2009 356-358*
Lee, Y.-C., and Sun, J.-S., A New Printed Antenna for Multiband Wireless Applications; *LAWP 2009 402-405*
Lee, Y.-C., *see* Hsieh, H.-W., *LAWP 2009 200-203*
Leendertz, J. A., *see* Klemm, M., *LAWP 2009 1349-1352*
Lemoine, C., *see* Le Fur, G., *LAWP 2009 332-335*
Lester, L. F., *see* Kim, J. H., *LAWP 2009 1337-1340*
Leung, K. W., *see* Lim, E. H., *LAWP 2009 486-489*
Leviatan, Y., *see* Pazin, L., *LAWP 2009 27-29*
Lhermite, H., *see* Tentillier, N., *LAWP 2009 701-704*
Li, B., Hao, C.-X., and Sheng, X.-Q., A Dual-Mode Quadrature-Fed Wideband Circularly Polarized Dielectric Resonator Antenna; *LAWP 2009 1036-1038*
Li, C., *see* Park, Z., *LAWP 2009 939-942*
Li, C., *see* Liu, X., *LAWP 2009 1154-1157*
Li, F., *see* Lin, B.-Q., *LAWP 2009 1065-1068*
Li, F., *see* Liu, X., *LAWP 2009 1154-1157*
Li, H., *see* Xiong, J., *LAWP 2009 1006-1009*
Li, H., Xiong, J., and He, S., A Compact Planar MIMO Antenna System of Four Elements With Similar Radiation Characteristics and Isolation Structure; *LAWP 2009 1107-1110*
Li, H.-J., *see* Tsen, W. F., *LAWP 2009 1295-1298*
Li, L., Chen, Q., Yuan, Q., and Sawaya, K., Ultrawideband Suppression of Ground Bounce Noise in Multilayer PCB Using Locally Embedded Planar Electromagnetic Band-Gap Structures; *LAWP 2009 740-743*
Li, L., *see* Zuo, J., *LAWP 2009 141-144*
Li, L., Chen, Q., Yuan, Q., Sawaya, K., Maruyama, T., Furuno, T., and Uebayashi, S., Novel Broadband Planar Reflectarray With Parasitic Dipoles for Wireless Communication Applications; *LAWP 2009 881-885*
Li, L.-W., *see* Liu, X., *LAWP 2009 1426-1429*
Li, P., *see* Deng, C., *LAWP 2009 1394-1397*
Li, Q., *see* Dong, J., *LAWP 2009 1150-1153*
Li, Q.-Y., Jiao, Y.-C., and Zhao, G., A Novel Microstrip Rectangular-Patch/Ring-Combination Reflectarray Element and Its Application; *LAWP 2009 1119-1122*
Li, W. T., Shi, X. W., and Hei, Y. Q., Novel Planar UWB Monopole Antenna With Triple Band-Notched Characteristics; *LAWP 2009 1094-1098*
Li, W.-D., Zhou, H.-X., and Hong, W., A Cube-Based Scheme of IE-ODDM-MLFMA for Electromagnetic Scattering Problems; *LAWP 2009 630-633*
Li, W.-D., Zhou, H.-X., and Hong, W., A Hermite Inter/Extrapolation Scheme for MoM Matrices Over a Frequency Band; *LAWP 2009 782-785*
Li, X., *see* Fu, S., *LAWP 2009 1014-1016*
Li, X.-S., Luo, F., and Hu, B.-J., FDTD Analysis of Radiation Performance of a Cylinder Plasma Antenna; *LAWP 2009 756-758*
Li, Y., and Ling, H., Extraction of Wave Propagation Mechanisms in a Cut-Wire Array Using the ESPRIT Algorithm; *LAWP 2009 744-747*
Li, Y., *see* Amadjikpe, A. L., *LAWP 2009 763-766*
Li, Y., Zhang, Z., Chen, W., Feng, Z., and Iskander, M. F., A Quadband Antenna With Reconfigurable Feedings; *LAWP 2009 1069-1071*
Li, Y., Wu, M.-F., Yilmaz, A. E., and Ling, H., Investigation of Short-Range Radio-wave Propagation at HF/VHF Frequencies in a Forested Environment; *LAWP 2009 1182-1185*
Li, Z., *see* Xia, Y., *LAWP 2009 498-501*
Li, Z., Du, Z., and Gong, K., Compact Reconfigurable Antenna Array for Adaptive MIMO Systems; *LAWP 2009 1317-1320*
Liang, C.-H., *see* Zhao, X.-W., *LAWP 2009 1390-1393*
Liang, H., Ruan, S., Zhang, M., and Su, H., Far-Field Radiation Patterns of Terahertz Wire Waveguides; *LAWP 2009 1272-1274*
Liang, X.-L., and Denidni, T. A., Wideband Rectangular Dielectric Resonator Antenna With a Concave Ground Plane; *LAWP 2009 367-370*
Liao, S., Xu, J., Wan, F., Wang, W., and Gong, Y., Left-Handed/Right-Handed Transmission Line Subwavelength Cavity Resonators; *LAWP 2009 80-83*
Liao, T.-H., Hsieh, P.-C., and Chen, F.-C., Subwavelength Target Detection Using Ultrawideband Time-Reversal Techniques With a Multilayered Dielectric Slab; *LAWP 2009 835-838*
Liberti, M., Apollonio, F., Merla, C., and d'Inzeo, G., Microdosimetry in the Microwave Range: A Quantitative Assessment at Single Cell Level; *LAWP 2009 865-868*
Lienard, M., *see* Molina-Garcia-Pardo, J.-M., *LAWP 2009 1186-1189*
Lim, E. H., and Leung, K. W., Compact Three-Port Integrated-Antenna-Filter Modules; *LAWP 2009 486-489*
Lim, S., and Iskander, M. F., Design of a Dual-Band, Compact Yagi Antenna Over an EBG Ground Plane; *LAWP 2009 88-91*
Lim, S., Design of a Multidirectional, High-Gain Compact Yagi Antenna; *LAWP 2009 418-420*
Lim, S., *see* Lee, H. R., *LAWP 2009 823-825*
Lim, S. Y., *see* Yun, Z., *LAWP 2009 587-591*
Lim, S. Y., Yun, Z., Baker, J. M., Celik, N., Youn, H.-S., and Iskander, M. F., Propagation Modeling and Measurement for a Multifloor Stairwell; *LAWP 2009 583-586*
Lin, B.-Q., Li, F., Zheng, Q.-R., and Zen, Y.-S., Design and Simulation of a Miniature Thick-Screen Frequency Selective Surface Radome; *LAWP 2009 1065-1068*
Lin, C.-C., *see* Ziolkowski, R. W., *LAWP 2009 989-993*
Lin, C.-H., *see* Lin, Y.-F., *LAWP 2009 6-9*
Lin, C.-Y., *see* Kim, J. H., *LAWP 2009 1337-1340*
Lin, J., *see* Park, Z., *LAWP 2009 939-942*

- Lin, S.-C.**, *see* Chen, H.-M., *LAWP 2009 173-176*
- Lin, W.-P.**, and Huang, C.-H., Coplanar Waveguide-Fed Rectangular Antenna With an Inverted-L Stub for Ultrawideband Communications; *LAWP 2009 228-231*
- Lin, Y.-F.**, Chen, H.-M., and Lin, C.-H., Compact Dual-Band Hybrid Dielectric Resonator Antenna With Radiating Slot; *LAWP 2009 6-9*
- Lin, Y.-F.**, *see* Chen, H.-M., *LAWP 2009 173-176*
- Lindell, I. V.**, *see* Sihvola, A., *LAWP 2009 542-545*
- Lindell, I. V.**, Wallen, H., and Sihvola, A., General Electromagnetic Boundary Conditions Involving Normal Field Components; *LAWP 2009 877-880*
- Ling, H.**, *see* Li, Y., *LAWP 2009 744-747*
- Ling, H.**, *see* Li, Y., *LAWP 2009 1182-1185*
- Lippens, D.**, *see* Carbonell, J., *LAWP 2009 886-889*
- Liu, L.**, *see* Zhang, Q., *LAWP 2009 1357-1359*
- Liu, X.**, Wang, B.-Z., and Li, L.-W., Tradeoff of Transmitted Power in Time-Reversed Impulse Radio Ultrawideband Communications; *LAWP 2009 1426-1429*
- Liu, X.**, Li, C., Yao, K., Meng, X., and Li, F., Invisibility Cloaks Modeled by Anisotropic Metamaterials Based on Inductor-Capacitor Networks; *LAWP 2009 1154-1157*
- Liu, Y.**, De Flaviis, F., and Alexopoulos, N. G., A Thin X-Band Microwave Absorber Using a Center Shorted Spiral Medium; *LAWP 2009 271-274*
- Liu, Y.**, *see* Jiang, W., *LAWP 2009 1275-1278*
- Liu, Z.**, *see* He, J., *LAWP 2009 323-327*
- Liu, Z.**, Boyle, K., Krogerus, J., de Jongh, M., Reimann, K., Kaunisto, R., and Ollikainen, J., MEMS-Switched, Frequency-Tunable Hybrid Slot/PIFA Antenna; *LAWP 2009 311-314*
- Lizzi, L.**, *see* Azaro, R., *LAWP 2009 177-180*
- Lizzi, L.**, Viani, F., and Massa, A., Dual-Band Spline-Shaped PCB Antenna for Wi-Fi Applications; *LAWP 2009 616-619*
- Lizzi, L.**, Viani, F., Zeni, E., and Massa, A., A DVBH/GSM/UMTS Planar Antenna for Multimode Wireless Devices; *LAWP 2009 568-571*
- Loison, R.**, *see* Salti, H., *LAWP 2009 363-366*
- Longobardi, F.**, *see* Trincherio, D., *LAWP 2009 224-227*
- Longobardi, F.**, *see* Trincherio, D., *LAWP 2009 494-497*
- Lopez, J.-M. E.**, *see* Hebib, S., *LAWP 2009 352-355*
- Lovat, G.**, and Burghignoli, P., Propagation and Field Excitation in Metal-Strip Grating Waveguides: Homogeneous Model and Full-Wave Analysis; *LAWP 2009 708-711*
- LoVetri, J.**, *see* Mojabi, P., *LAWP 2009 645-648*
- Lu, M.**, Bredow, J. W., Jung, S., and Tjuatja, S., Evaluation of Green's Functions of Rectangular Cavities Around Resonant Frequencies in the Method of Moments; *LAWP 2009 204-208*
- Lu, S.**, *see* Wang, Z., *LAWP 2009 100-103*
- Lu, Y.**, *see* Chattha, H. T., *LAWP 2009 637-640*
- Lu, Y.**, *see* Chattha, H. T., *LAWP 2009 856-860*
- Luk, K. M.**, *see* Lau, K. L., *LAWP 2009 340-343*
- Luk, K.-M.**, *see* Wang, X., *LAWP 2009 209-211*
- Luk, K.-M.**, *see* Wu, B. Q., *LAWP 2009 60-63*
- Luk, K.-M.**, *see* Wu, B. Q., *LAWP 2009 627-629*
- Luk, K.-M.**, *see* Wu, B. Q., *LAWP 2009 634-636*
- Luo, F.**, *see* Li, X.-S., *LAWP 2009 756-758*
- Luo, X.**, *see* Huang, C., *LAWP 2009 912-915*
- Lusina, P.**, *see* Kanj, H., *LAWP 2009 815-818*
- Lusina, P.**, *see* Ali, S. M., *LAWP 2009 927-930*
- M**
- Ma, H.**, *see* Zhou, H., *LAWP 2009 538-541*
- Maaskant, R.**, Bekers, D. J., Arts, M. J., van Cappellen, W. A., and Ivashina, M. V., Evaluation of the Radiation Efficiency and the Noise Temperature of Low-Loss Antennas; *LAWP 2009 1166-1170*
- Maci, S.**, *see* Caminita, F., *LAWP 2009 811-814*
- Mahani, M. S.**, *see* Albooyeh, M., *LAWP 2009 319-322*
- Mahdjoubi, K.**, *see* Vu, T.-H., *LAWP 2009 248-252*
- Maitra, A.**, and Chakravarty, K., Rain Depolarization Measurements on Low Margin Ku-Band Satellite Signal at a Tropical Location; *LAWP 2009 445-448*
- Malarky, A.**, *see* Rafi, G. Z., *LAWP 2009 44-48*
- Malmqvist, R.**, *see* Cheng, S., *LAWP 2009 383-386*
- ManhTuan, D.**, Viet-Anh, N., and Park, S.-O., Derivation and Analysis of Spatial Correlation for 2×2 MIMO System; *LAWP 2009 409-413*
- Manica, L.**, Rocca, P., Pastorino, M., and Massa, A., Boresight Slope Optimization of Subarrayed Linear Arrays Through the Contiguous Partition Method; *LAWP 2009 253-257*
- Manica, L.**, Rocca, P., Poli, L., and Massa, A., Almost Time-Independent Performance in Time-Modulated Linear Arrays; *LAWP 2009 843-846*
- Manimegalai, B.**, Raju, S., and Abhaikumar, V., A Multifractal Cantor Antenna for Multiband Wireless Applications; *LAWP 2009 359-362*
- Manteghi, M.**, A Switch-Band Antenna for Software-Defined Radio Applications; *LAWP 2009 3-5*
- Markley, L.**, and Eleftheriades, G. V., Two-Dimensional Subwavelength-Focused Imaging Using a Near-Field End-Fire Antenna-Array Probe; *LAWP 2009 1025-1028*
- Martinez, S. G.**, *see* Rodriguez, J.-V., *LAWP 2009 977-980*
- Martinez-Fernandez, J.**, Gil, J. M., and Wiesbeck, W., Twin Orthogonally Polarized UWB Aperture Antenna Elements With Optimized Profile Feed for Optimal Adaptation; *LAWP 2009 517-521*
- Martinez-Gonzalez, A. M.**, *see* Valenzuela-Valdes, J. F., *LAWP 2009 112-115*
- Maruyama, T.**, *see* Li, L., *LAWP 2009 881-885*
- Massa, A.**, *see* Rocca, P., *LAWP 2009 437-440*
- Massa, A.**, *see* Azaro, R., *LAWP 2009 177-180*
- Massa, A.**, *see* Manica, L., *LAWP 2009 253-257*
- Massa, A.**, *see* Lizzi, L., *LAWP 2009 616-619*
- Massa, A.**, *see* Lizzi, L., *LAWP 2009 568-571*
- Massa, A.**, *see* Manica, L., *LAWP 2009 843-846*
- Massa, A.**, *see* Azaro, R., *LAWP 2009 905-908*
- Mauriello, G.**, *see* Caminita, F., *LAWP 2009 811-814*
- Mazinani, S. M.**, and Hassani, H. R., A Novel Broadband Plate-Loaded Planar Monopole Antenna; *LAWP 2009 1123-1126*
- McDonald, J. J.**, *see* Huff, G. H., *LAWP 2009 649-652*
- McNeill, K. M.**, *see* Gomez, N. G., *LAWP 2009 607-610*
- Medeiros, C. R.**, Costa, J. R., and Fernandes, C. A., Compact Tapered Slot UWB Antenna With WLAN Band Rejection; *LAWP 2009 661-664*
- Mehta, A.**, *see* Deo, P., *LAWP 2009 196-199*
- Melde, K. L.**, *see* Gomez, N. G., *LAWP 2009 607-610*
- Meng, X.**, *see* Liu, X., *LAWP 2009 1154-1157*
- Menudier, C.**, Chantalat, R., Arnaud, E., Thevenot, M., Monediere, T., and Dumon, P., EBG Focal Feed Design Optimization; *LAWP 2009 315-318*
- Menudier, C.**, Chantalat, R., Arnaud, E., Thevenot, M., Monediere, T., and Dumon, P., EBG Focal Feed Improvements for Ka-Band Multibeam Space Applications; *LAWP 2009 611-615*
- Menzel, W.**, *see* Dieter, S., *LAWP 2009 157-160*
- Menzel, W.**, *see* Nguyen, T. P., *LAWP 2009 786-789*
- Merla, C.**, *see* Liberti, M., *LAWP 2009 865-868*
- Mesa, F.**, *see* Rodriguez-Berral, R., *LAWP 2009 641-644*
- Metze, G.**, *see* Yang, B., *LAWP 2009 181-184*
- Midrio, M.**, Boscolo, S., Sacchetto, F., Someda, C. G., Capobianco, A. D., and Pigozzo, F. M., Planar, Compact Dual-Band Antenna for Wireless LAN Applications; *LAWP 2009 1234-1237*
- Migliaccio, C.**, *see* Nguyen, T. P., *LAWP 2009 786-789*
- Migliore, M. D.**, *see* Pinchera, D., *LAWP 2009 534-537*
- Milon, M.-A.**, *see* Jamaluddin, M. H., *LAWP 2009 697-700*
- Miniutti, D.**, *see* Zhang, J., *LAWP 2009 53-56*
- Mirshakar-Syahkal, D.**, *see* Deo, P., *LAWP 2009 196-199*
- Miskovsky, P.**, Gonzalez-Arbesu, J. M., and Romeu, J., Antenna Radiation Efficiency Measurement in an Ultrawide Frequency Range; *LAWP 2009 72-75*
- Mitra, R.**, *see* Ogucu, G., *LAWP 2009 457-460*
- Mohajer, M.**, *see* Rafi, G. Z., *LAWP 2009 44-48*
- Mohanan, P.**, *see* Sarin, V. P., *LAWP 2009 779-781*
- Mojabi, P.**, and LoVetri, J., Microwave Biomedical Imaging Using the Multiplicative Regularized Gauss Newton Inversion; *LAWP 2009 645-648*
- Moldovan, E.**, *see* Boukari, B., *LAWP 2009 759-762*
- Molina-Garcia-Pardo, J.-M.**, *see* Rodriguez, J.-V., *LAWP 2009 379-382*
- Molina-Garcia-Pardo, J.-M.**, *see* Rodriguez, J.-V., *LAWP 2009 977-980*
- Molina-Garcia-Pardo, J.-M.**, Lienard, M., Degauque, P., Garcia-Pardo, C., and Juan-Llacer, L., MIMO Channel Capacity With Polarization Diversity in Arched Tunnels; *LAWP 2009 1186-1189*
- Monediere, T.**, *see* Menudier, C., *LAWP 2009 315-318*
- Monediere, T.**, *see* Hajj, M., *LAWP 2009 161-164*
- Monediere, T.**, *see* Akhdar, O., *LAWP 2009 478-481*
- Monediere, T.**, *see* Menudier, C., *LAWP 2009 611-615*
- Monediere, T.**, *see* Huitema, L., *LAWP 2009 1021-1027*
- Monni, S.**, Neto, A., Gerini, G., Nennie, F., and Tjhuis, A., Frequency-Selective Surface to Prevent Interference Between Radar and SATCOM Antennas; *LAWP 2009 220-223*

- Monorchio, A.**, *see* Costa, F., *LAWP 2009 1341-1344*
Monserrat, J. F., *see* Rubio, L., *LAWP 2009 509-512*
Montisci, G., *see* Casula, G. A., *LAWP 2009 752-755*
Moon, J.-I., Oh, S.-S., and Jung, Y.-B., Echo-Cancellation Technique With Recursive Data in Nonanechoic Test Sites; *LAWP 2009 558-560*
Morabito, A. F., *see* Bucci, O. M., *LAWP 2009 1386-1389*
Mouhamadou, M., *see* Akhdar, O., *LAWP 2009 478-481*
Mousavi, P., *see* Rafi, G. Z., *LAWP 2009 44-48*
Murch, R. D., *see* Chiu, C.-Y., *LAWP 2009 767-770*

N

- Naderi, N. A.**, *see* Kim, J. H., *LAWP 2009 1337-1340*
Nair, V. K., *see* Zhang, C., *LAWP 2009 216-219*
Nakano, H., *see* Deo, P., *LAWP 2009 196-199*
Nakano, H., *see* Shibayama, J., *LAWP 2009 890-893*
Nam, S., *see* Tak, Y., *LAWP 2009 1238-1241*
Narayanan, R. M., *see* Wang, H., *LAWP 2009 802-805*
Narayanan, R. M., *see* Ren, Y.-J., *LAWP 2009 1302-1305*
Naser-Moghadasi, M., Roustae, H., and Virdee, B. S., Compact UWB Planar Monopole Antenna; *LAWP 2009 1382-1385*
Naser-Moghadasi, M., *see* Dadgarpour, A., *LAWP 2009 1135-1138*
Nassar, N., *see* Sarin, V. P., *LAWP 2009 779-781*
Navarro-Cia, M., Beruete, M., Campillo, I., and Sorolla, M., Millimeter-Wave Left-Handed Extraordinary Transmission Metamaterial Demultiplexer; *LAWP 2009 212-215*
Nelson, R. M., *see* Braaten, B. D., *LAWP 2009 806-810*
Nennie, F., *see* Monni, S., *LAWP 2009 220-223*
Neto, A., *see* Monni, S., *LAWP 2009 220-223*
Neyestanak, A. A. L., *see* Oloumi, D., *LAWP 2009 1214-1217*
Ng, H. K., *see* Zheng, H.-X., *LAWP 2009 344-347*
Nguyen, H. V., Abielmona, S., and Caloz, C., Highly Efficient Leaky-Wave Antenna Array Using a Power-Recycling Series Feeding Network; *LAWP 2009 441-444*
Nguyen, T. K., Kim, B., Choo, H., and Park, I., Multiband Dual Spiral Stripline-Loaded Monopole Antenna; *LAWP 2009 57-59*
Nguyen, T. P., Pichot, C., Migliaccio, C., and Menzel, W., Study of Folded Reflector Multibeam Antenna With Dielectric Rods as Primary Source; *LAWP 2009 786-789*
Nicholson, K. J., and Wang, C. H., Improved Near-Field Radar Cross-Section Measurement Technique; *LAWP 2009 1103-1106*
Nie, Z., *see* Xia, T., *LAWP 2009 1291-1294*
Nielsen, J. A., *see* Gregor, R. B., *LAWP 2009 92-95*
Nielsen, J. A., *see* Ziolkowski, R. W., *LAWP 2009 1329-1333*
Nielsen, J. A., *see* Ziolkowski, R. W., *LAWP 2009 989-993*
Notaros, B. M., *see* Ilic, M. M., *LAWP 2009 970-973*
Nourinia, J., *see* Ojaroudi, M., *LAWP 2009 728-731*
Novotny, D., *see* Holloway, C. L., *LAWP 2009 525-529*

O

- O'Keefe, S. G.**, *see* Galehdar, A., *LAWP 2009 244-247*
O'Neil, B., *see* Adams, R. S., *LAWP 2009 165-168*
Ock, J. S., Eom, H. J., and Park, J. Y., Electromagnetic Scattering From Multiple Slant Strips; *LAWP 2009 40-43*
Ogucu, G., Mittra, R., and Du, K., An Interpolation Algorithm to Reduce the Reduced Matrix Fill-Time in CBFM; *LAWP 2009 457-460*
Oh, S.-S., *see* Moon, J.-I., *LAWP 2009 558-560*
Oh, S.-W., *see* Ahn, C.-H., *LAWP 2009 966-969*
Oh, Y., *see* Hwang, J.-H., *LAWP 2009 1050-1053*
Ojaroudi, M., Ghobadi, C., and Nourinia, J., Small Square Monopole Antenna With Inverted T-Shaped Notch in the Ground Plane for UWB Application; *LAWP 2009 728-731*
Ojaroudi, M., Ghanbari, G., Ojaroudi, N., and Ghobadi, C., Small Square Monopole Antenna for UWB Applications With Variable Frequency Band-Notch Function; *LAWP 2009 1061-1064*
Ojaroudi, N., *see* Ojaroudi, M., *LAWP 2009 1061-1064*
Okhmatovski, V., *see* Aronsson, J., *LAWP 2009 425-428*
Okoniewski, M., *see* Sutinjo, A., *LAWP 2009 550-553*
Okoniewski, M., *see* Sutinjo, A., *LAWP 2009 1436*
Okoniewski, M., *see* Wu, B., *LAWP 2009 998-1001*
Ollikainen, J., *see* Liu, Z., *LAWP 2009 311-314*

- Oloumi, D.**, Kordzadeh, A., and Neyestanak, A. A. L., Size Reduction and Bandwidth Enhancement of a Waveguide Bandpass Filter Using Fractal-Shaped Irises; *LAWP 2009 1214-1217*
Olsen, R., *see* Xia, Y., *LAWP 2009 498-501*
Orlenius, C., *see* Chen, X., *LAWP 2009 678-681*
Orta, R., *see* Addamo, G., *LAWP 2009 1418-1421*
Orta, R., *see* Addamo, G., *LAWP 2009 1039-1042*
Osarefin, I. A., Torres, A., and Chen, C.-C., A Novel Compact Dual-Linear Polarized UWB Antenna for VHF/UHF Applications; *LAWP 2009 145-148*
Otonello, M., *see* Bozza, G., *LAWP 2009 1283-1287*

P

- Padhi, S. K.**, *see* Fhager, A., *LAWP 2009 1353-1356*
Paek, J. K., and Eom, H. J., Cylindrical Cavity-Backed Antenna; *LAWP 2009 852-855*
Pal, S., *see* Kumar, C., *LAWP 2009 826-829*
Pal, S., *see* Guha, D., *LAWP 2009 1367-1369*
Pal, S., *see* Kumar, C., *LAWP 2009 903-904*
Palud, S., Colombel, F., Himdi, M., and Le Meins, C., Circuit Modeling of a Small Broadband Conical Antenna; *LAWP 2009 96-99*
Pan, B., *see* Amadjikpe, A. L., *LAWP 2009 763-766*
Pan, S.-C., *see* Chen, H.-M., *LAWP 2009 173-176*
Pang, J.-Y., Xiao, S.-Q., Ding, Z.-F., and Wang, B.-Z., Two-Element PIFA Antenna System With Inherent Performance of Low Mutual Coupling; *LAWP 2009 1223-1226*
Papamichael, V. C., Eigen-Analysis of Lossy Compact Multielement Antenna Systems; *LAWP 2009 1334-1336*
Papapolymerou, J., *see* Amadjikpe, A. L., *LAWP 2009 763-766*
Parazzoli, C. G., *see* Gregor, R. B., *LAWP 2009 92-95*
Parent, M. G., *see* Dorsey, W. M., *LAWP 2009 603-606*
Parini, C., *see* Guo, L., *LAWP 2009 554-557*
Park, B.-S., Lee, J.-M., Lee, S.-G., Kang, M.-S., and Choi, J.-I., Design of Sputter-Deposited Multilayer Thin Films Planar Inverted-F Antenna for Mobile Terminals; *LAWP 2009 1143-1145*
Park, H.-C., *see* Baek, Y.-H., *LAWP 2009 909-911*
Park, I., *see* Nguyen, T. K., *LAWP 2009 57-59*
Park, J., *see* Tak, Y., *LAWP 2009 1238-1241*
Park, J. Y., *see* Ock, J. S., *LAWP 2009 40-43*
Park, M., *see* Rhyu, H., *LAWP 2009 453-456*
Park, M.-J., *see* Choi, N., *LAWP 2009 580-582*
Park, M.-J., and Lee, B., Efficient Calculation of the Green's Function for 2-D Periodic Line Sources Using Ewald Method; *LAWP 2009 565-567*
Park, S.-O., *see* Bhatti, R. A., *LAWP 2009 129-132*
Park, S.-O., *see* ManhTuan, D., *LAWP 2009 409-413*
Park, S.-O., *see* Bhatti, R. A., *LAWP 2009 1430-1433*
Park, S.-O., *see* Kong, K.-B., *LAWP 2009 1002-1005*
Park, S.-W., *see* Baek, Y.-H., *LAWP 2009 909-911*
Park, W. S., *see* Kim, J. H., *LAWP 2009 307-310*
Park, W. S., *see* Kim, J. H., *LAWP 2009 712-715*
Park, W.-S., *see* Im, Y.-T., *LAWP 2009 266-270*
Park, Z., Li, C., and Lin, J., A Broadband Microstrip Antenna With Improved Gain for Noncontact Vital Sign Radar Detection; *LAWP 2009 939-942*
Parron Granados, J., *see* Gemio, J., *LAWP 2009 748-751*
Parron, J., *see* Gemio, J., *LAWP 2009 736-739*
Pascal, O., *see* Hebib, S., *LAWP 2009 352-355*
Pastorino, M., *see* Manica, L., *LAWP 2009 253-257*
Paulotto, S., *see* Valerio, G., *LAWP 2009 674-677*
Payandehjoo, K., and Abhari, R., Employing EBG Structures in Multiantenna Systems for Improving Isolation and Diversity Gain; *LAWP 2009 1162-1165*
Pazin, L., Dyskin, A., and Leviatan, Y., Quasi-Isotropic X-Band Inverted-F Antenna for Active RFID Tags; *LAWP 2009 27-29*
Pei, Z., *see* Zhou, H., *LAWP 2009 538-541*
Pena, P., *see* Bohorquez, J. C., *LAWP 2009 1139-1142*
Peng, C.-M., *see* Chen, I.-F., *LAWP 2009 472-474*
Peng, C.-M., *see* Chen, I.-F., *LAWP 2009 475-477*
Peng, C.-M., *see* Chen, I.-F., *LAWP 2009 994-997*
Pereda, J. A., Grande, A., Gonzalez, O., and Vegas, A., An Efficient 2D ADI-FDTD Modeling of High-Order, Frequency-Dependent Media; *LAWP 2009 724-727*
Pernod, P., *see* Hage-Ali, S., *LAWP 2009 1306-1309*
Peverini, O. A., *see* Virone, G., *LAWP 2009 546-549*

- Peaverini, O. A.**, *see* Addamo, G., *LAWP 2009 1418-1421*
Peaverini, O. A., *see* Addamo, G., *LAWP 2009 1039-1042*
Piazza, D., D'Amico, M., and Dandekar, K. R., Performance Improvement of a Wideband MIMO System by Using Two-Port RLWA; *LAWP 2009 830-834*
Pichot, C., *see* Nguyen, T. P., *LAWP 2009 786-789*
Pigozzo, F. M., *see* Midrio, M., *LAWP 2009 1234-1237*
Pinchera, D., and Migliore, M. D., A Simple and Effective Procedure for Connector Deembedding in Antenna Arrays; *LAWP 2009 534-537*
Pino, M. R., *see* Laviada, J., *LAWP 2009 599-602*
Pinzon, I. C. H., *see* Bohorquez, J. C., *LAWP 2009 1139-1142*
Podilchak, S. K., Freundorfer, A. P., and Antar, Y. M. M., Planar Surface-Wave Sources and Metallic Grating Lenses for Controlled Guided-Wave Propagation; *LAWP 2009 371-374*
Poli, L., *see* Manica, L., *LAWP 2009 843-846*
Ponchak, G. E., *see* Amadjikpe, A. L., *LAWP 2009 763-766*
Popovic, M., *see* Zhu, K. G., *LAWP 2009 1259-1262*
Potter, M., *see* Tan, T., *LAWP 2009 505-508*
Potter, M. E., *see* Wu, B., *LAWP 2009 998-1001*
Poutanen, J., Haneda, K., Kolmonen, V.-M., Salmi, J., and Vainikainen, P., Analysis of Correlated Shadow Fading in Dual-Link Indoor Radio Wave Propagation; *LAWP 2009 1190-1193*
Preece, A., *see* Klemm, M., *LAWP 2009 1349-1352*
Preobrazhensky, V., *see* Hage-Ali, S., *LAWP 2009 1306-1309*
Prisco, G., *see* D'Urso, M., *LAWP 2009 449-452*
Psychoudakis, D., and Volakis, J. L., Conformal Asymmetric Meandered Flare (AMF) Antenna for Body-Worn Applications; *LAWP 2009 931-934*
Pujara, D., *see* Sharma, S. B., *LAWP 2009 861-864*
Pujara, D. A., *see* Sharma, S. B., *LAWP 2009 513-516*

Q

- Qu, S.**, *see* Zhou, H., *LAWP 2009 538-541*
Qu, S., *see* Ali, S. M., *LAWP 2009 927-930*

R

- Raffetto, M.**, *see* Bozza, G., *LAWP 2009 1283-1287*
Rafi, G. Z., Mohajer, M., Malarky, A., Mousavi, P., and Safavi-Naeini, S., Low-Profile Integrated Microstrip Antenna for GPS-DSRC Application; *LAWP 2009 44-48*
Rajo-Iglesias, E., *see* Kildal, P.-S., *LAWP 2009 84-87*
Rajo-Iglesias, E., Fernandez, J.-M., and Sierra-Castaner, M., Hard Surfaces to Reduce Blockage in Thick Cylinders; *LAWP 2009 1402-1405*
Raju, S., *see* Manimegalai, B., *LAWP 2009 359-362*
Ramadan, O., An Implicit 4-Stage ADI Wave-Equation PML Algorithm for 2-D FDTD Simulations; *LAWP 2009 391-393*
Ramadan, O., Complex Envelope Four-Stage ADI-FDTD Algorithm for Narrowband Electromagnetic Applications; *LAWP 2009 1084-1086*
Ramahi, O. M., *see* Attia, H., *LAWP 2009 1198-1201*
Rantakari, P., *see* Cheng, S., *LAWP 2009 383-386*
Ranvier, S., Icheln, C., and Vainikainen, P., Measurement-Based Mutual Information Analysis of MIMO Antenna Selection in the 60-GHz Band; *LAWP 2009 686-689*
Rasshofer, R. H., *see* Fitzek, F., *LAWP 2009 1076-1079*
Ray, K. P., *see* Deshmukh, A. A., *LAWP 2009 1410-1413*
Razali, A. R., and Bialkowski, M. E., Coplanar Inverted-F Antenna With Open-End Ground Slots for Multiband Operation; *LAWP 2009 1029-1032*
Reich, M., *see* Braaten, B. D., *LAWP 2009 1158-1161*
Reig, C., *see* Avila-Navarro, E., *LAWP 2009 596-598*
Reig, J., *see* Rubio, L., *LAWP 2009 509-512*
Reimann, K., *see* Liu, Z., *LAWP 2009 311-314*
Remez, J., and Ben-Ari, E., Low-Loss Wideband Multimodal Interferometric Antenna for DOA in Azimuth and Elevation; *LAWP 2009 898-902*
Remez, J., Zeierman, E., and Zohar, R., Dual-Polarized Tapered Slot-Line Antenna Array Fed by Rotman Lens Air-Filled Ridge-Port Design; *LAWP 2009 847-851*
Ren, Y.-J., Lai, C.-P., Chen, P.-H., and Narayanan, R. M., Compact Ultrawideband UHF Array Antenna for Through-Wall Radar Applications; *LAWP 2009 1302-1305*
Rengarajan, S. R., Coupling Between Waveguide-Fed Planar Slot Arrays; *LAWP 2009 429-432*

- Rengarajan, S. R.**, Reciprocity Considerations in Microstrip Reflectarrays; *LAWP 2009 1206-1209*
Rhee, E.-H., *see* Baek, Y.-H., *LAWP 2009 909-911*
Rhee, J.-K., *see* Baek, Y.-H., *LAWP 2009 909-911*
Rhyu, H., Jung, C., Byun, J., Park, M., Chung, Y., Kim, T., and Lee, B., DVB-H Antenna Design Using Folder-Type Chassis and Coupling Element on a Ferrite; *LAWP 2009 453-456*
Richardson, R., *see* Tait, G., *LAWP 2009 232-235*
Richie, J. E., *see* Black, J. A., *LAWP 2009 869-871*
Ries, L., *see* Hebib, S., *LAWP 2009 352-355*
Rmili, H., Floch, J.-M., and Zangar, H., Experimental Study of a 2-D Irregular Fractal-Jet Printed Antenna; *LAWP 2009 328-331*
Rocca, P., Haupt, R. L., and Massa, A., Sidelobe Reduction Through Element Phase Control in Uniform Subarrayed Array Antennas; *LAWP 2009 437-440*
Rocca, P., *see* Manica, L., *LAWP 2009 253-257*
Rocca, P., *see* Manica, L., *LAWP 2009 843-846*
Rocca, P., *see* Azaro, R., *LAWP 2009 905-908*
Rodda, D., *see* Zhang, J., *LAWP 2009 53-56*
Rodes, E., *see* Hajj, M., *LAWP 2009 161-164*
Rodriguez, J. J., *see* Gomez, N. G., *LAWP 2009 607-610*
Rodriguez, J.-V., Molina-Garcia-Pardo, J.-M., and Juan-Llacer, L., UTD-PO Formulation for the Multiple-Diffraction of Spherical Waves by an Array of Multimodeled Obstacles; *LAWP 2009 379-382*
Rodriguez, J.-V., Martinez, S. G., Garcia-Pardo, C., Molina-Garcia-Pardo, J.-M., and Juan-Llacer, L., Comparison of Various Urban Radiowave Propagation Models With Measurements; *LAWP 2009 977-980*
Rodriguez-Berral, R., Mesa, F., Baccarelli, P., and Burghignoli, P., Excitation of a Periodic Microstrip Line by an Aperiodic Delta-Gap Source; *LAWP 2009 641-644*
Rogers, D. A., *see* Braaten, B. D., *LAWP 2009 806-810*
Romeu, J., *see* Miskovsky, P., *LAWP 2009 72-75*
Roqueta, G., *see* Yildirim, B. S., *LAWP 2009 149-152*
Rousta, H., *see* Naser-Moghadasi, M., *LAWP 2009 1382-1385*
Ruan, S., *see* Liang, H., *LAWP 2009 1272-1274*
Rubinos, O., *see* Grana-Varela, M., *LAWP 2009 839-842*
Rubio, J., *see* Corcoles, J., *LAWP 2009 108-111*
Rubio, J., Corcoles, J., and Gonzalez de Aza, M., Inclusion of the Feeding Network Effects in the Generalized-Scattering-Matrix Formulation of a Finite Array; *LAWP 2009 819-822*
Rubio, L., Monserrat, J. F., Garcia, A. P., and Reig, J., Temporal Dispersion Characterization of Over-Building Propagation Applied to Iso-Frequency Repeaters; *LAWP 2009 509-512*
Ruyle, J. E., and Bernhard, J. T., Signal Flow Graph for a Probe-Fed Microstrip Patch Antenna; *LAWP 2009 935-938*
Rydberg, A., *see* Cheng, S., *LAWP 2009 383-386*
Ryu, H. K., *see* Lee, H. R., *LAWP 2009 823-825*

S

- Sacchetto, F.**, *see* Midrio, M., *LAWP 2009 1234-1237*
Safavi-Naeini, S., *see* Borji, A., *LAWP 2009 336-339*
Safavi-Naeini, S., *see* Hailu, D. M., *LAWP 2009 37-39*
Safavi-Naeini, S., *see* Rafi, G. Z., *LAWP 2009 44-48*
Sajuyigbe, S., Justice, B. J., Starr, A. F., and Smith, D. R., Design and Analysis of Three-Dimensionalized ELC Metamaterial Unit Cell; *LAWP 2009 1268-1271*
Salmi, J., *see* Poutanen, J., *LAWP 2009 1190-1193*
Salti, H., Gillard, R., Loison, R., and Le Coq, L., A Reflectarray Antenna Based on Multiscale Phase-Shifting Cell Concept; *LAWP 2009 363-366*
Samuelsson, C., *see* Cheng, S., *LAWP 2009 383-386*
Sanchez-Hernandez, D. A., *see* Valenzuela-Valdes, J. F., *LAWP 2009 112-115*
Sarabandi, K., *see* Brakora, K. F., *LAWP 2009 433-436*
Sarabandi, K., *see* Elsherbini, A., *LAWP 2009 576-579*
Sarin, V. P., Nassar, N., Deepu, V., Aanandan, C. K., Mohanan, P., and Vasudevan, K., Wideband Printed Microstrip Antenna for Wireless Communications; *LAWP 2009 779-781*
Sarkar, T. K., *see* Zhao, X.-W., *LAWP 2009 1390-1393*
Sauleau, R., *see* Tentillier, N., *LAWP 2009 701-704*
Sauleau, R., *see* Jamaluddin, M. H., *LAWP 2009 697-700*
Sauleau, R., *see* Hage-Ali, S., *LAWP 2009 1306-1309*
Sawaya, K., *see* Li, L., *LAWP 2009 740-743*
Sawaya, K., *see* He, M., *LAWP 2009 530-533*

- Sawaya, K.**, *see* Li, L., *LAWP 2009 881-885*
- Sayem, A. T. M.**, Khan, S., and Ali, M., A Miniature Spiral Diversity Antenna System With High Overall Gain Coverage and Low SAR; *LAWP 2009 49-52*
- Schultz, S.**, *see* Gregor, R. B., *LAWP 2009 92-95*
- Scotti, R.**, *see* Trinchero, D., *LAWP 2009 30-33*
- Segovia-Vargas, D.**, *see* Herraiz-Martinez, F. J., *LAWP 2009 137-140*
- Seong, W. M.**, *see* Ji, J. K., *LAWP 2009 920-923*
- Serhal, D.**, *see* Hajj, M., *LAWP 2009 670-673*
- Serhal, D.**, Hajj, M., Chantalat, R., Drouet, J., and Jecko, B., Multifed Sectoral EBG Antenna for WiMAX Applications; *LAWP 2009 620-623*
- Sertel, K.**, *see* Yarga, S., *LAWP 2009 287-290*
- Sevgi, L.**, *see* Apaydin, G., *LAWP 2009 1010-1013*
- Shafai, L.**, *see* Foroozesh, A., *LAWP 2009 10-13*
- Shafai, L.**, *see* Sharma, S. K., *LAWP 2009 468-471*
- Shao, X.**, *see* Yang, B., *LAWP 2009 181-184*
- Sharaiha, A.**, *see* Le Fur, G., *LAWP 2009 332-335*
- Sharma, S. B.**, Pujara, D. A., Chakrabarty, S. B., and Singh, V. K., Improving the Cross-Polar Performance of an Offset Parabolic Reflector Antenna Using a Rectangular Matched Feed; *LAWP 2009 513-516*
- Sharma, S. B.**, Pujara, D., Chakrabarty, S. B., and Dey, R., Cross-Polarization Cancellation in an Offset Parabolic Reflector Antenna Using a Corrugated Matched Feed; *LAWP 2009 861-864*
- Sharma, S. K.**, and Shafai, L., Performance of a Novel Ψ -Shape Microstrip Patch Antenna With Wide Bandwidth; *LAWP 2009 468-471*
- Shay, W.-T.**, *see* Lao, R.-R., *LAWP 2009 76-79*
- Shen, Z.**, *see* Zhao, H., *LAWP 2009 1131-1134*
- Sheng, X.-Q.**, *see* Li, B., *LAWP 2009 1036-1038*
- Shi, X. W.**, *see* Li, W. T., *LAWP 2009 1094-1098*
- Shibayama, J.**, Ando, R., Yamauchi, J., and Nakano, H., An LOD-FDTD Method for the Analysis of Periodic Structures at Normal Incidence; *LAWP 2009 890-893*
- Siakavara, K.**, and Ganatsos, T., Modification of the Radiation Patterns of Higher Order Modes of Triangular Printed Antennas by EBG Ground Planes; *LAWP 2009 124-128*
- Sierra-Castaner, M.**, *see* Rajo-Iglesias, E., *LAWP 2009 1402-1405*
- Sihvola, A.**, Wallen, H., Yla-Oijala, P., Taskinen, M., Kettunen, H., and Lindell, I. V., Scattering by DB Spheres; *LAWP 2009 542-545*
- Sihvola, A.**, *see* Lindell, I. V., *LAWP 2009 877-880*
- Sim, C.-Y.-D.**, *see* Chen, C.-C., *LAWP 2009 974-976*
- Singh, V. K.**, *see* Sharma, S. B., *LAWP 2009 513-516*
- Skafidas, S.**, *see* Felic, G., *LAWP 2009 283-286*
- Slocum, M.**, *see* Tait, G., *LAWP 2009 232-235*
- Smith, D. B.**, *see* Zhang, J., *LAWP 2009 53-56*
- Smith, D. R.**, *see* Sajuyigbe, S., *LAWP 2009 1268-1271*
- Smith, J. L.**, *see* Weiss, M. D., *LAWP 2009 916-919*
- So, S. O.**, *see* Bae, H. R., *LAWP 2009 1345-1348*
- Soler Castany, J.**, *see* Gemio, J., *LAWP 2009 748-751*
- Someda, C. G.**, *see* Midrio, M., *LAWP 2009 1234-1237*
- Sorolla, M.**, *see* Navarro-Cia, M., *LAWP 2009 212-215*
- Spiliotopoulos, C. G.**, and Kanatas, A. G., Path-Loss and Time-Dispersion Parameters of UWB Signals in a Military Airplane; *LAWP 2009 790-793*
- Spingart, B.**, *see* Tentillier, N., *LAWP 2009 701-704*
- Srinivasan, V. V.**, *see* Kumar, C., *LAWP 2009 826-829*
- Srinivasan, V. V.**, *see* Kumar, C., *LAWP 2009 903-904*
- Staiculescu, D.**, *see* Yang, L., *LAWP 2009 653-656*
- Stake, J.**, *see* Banik, B., *LAWP 2009 1299-1301*
- Starr, A. F.**, *see* Sajuyigbe, S., *LAWP 2009 1268-1271*
- Stefanelli, R.**, *see* Trinchero, D., *LAWP 2009 30-33*
- Stefanelli, R.**, *see* Trinchero, D., *LAWP 2009 224-227*
- Stefanelli, R.**, *see* Trinchero, D., *LAWP 2009 494-497*
- Steffes, P. G.**, *see* Barott, W. C., *LAWP 2009 406-408*
- Su, H.**, *see* Liang, H., *LAWP 2009 1272-1274*
- Sukumar, C. R.**, Eslami, H., Eltawil, A. M., and Cetiner, B. A., Link Performance Improvement Using Reconfigurable Multiantenna Systems; *LAWP 2009 873-876*
- Sullivan, D. M.**, *see* Xia, Y., *LAWP 2009 498-501*
- Sullivan, D. M.**, Xia, Y., and Butherus, D., A Perfectly Matched Layer for Lossy Media at Extremely Low Frequencies; *LAWP 2009 1080-1083*
- Sun, J.-S.**, *see* Lee, Y.-C., *LAWP 2009 356-358*
- Sun, J.-S.**, *see* Lee, Y.-C., *LAWP 2009 402-405*
- Sun, J.-S.**, *see* Hsieh, H.-W., *LAWP 2009 200-203*
- Sun, M.**, Zhang, Y. P., Guo, Y. X., Chua, K. M., and Wai, L. L., Integration of Grid Array Antenna in Chip Package for Highly Integrated 60-GHz Radios; *LAWP 2009 1364-1366*
- Sutinjo, A.**, Okoniewski, M., and Johnston, R. H., Suppression of the Slot-Mode Radiation in a Slitted Waveguide Using Periodic Slot Perturbations; *LAWP 2009 550-553*
- Sutinjo, A.**, Okoniewski, M., and Johnston, R. H., Correction to "Suppression of the Slot-Mode Radiation in a Slitted Waveguide Using Periodic Slot Perturbations"; *LAWP 2009 1436*
- Suzuki, H.**, *see* Das Gupta, J. D., *LAWP 2009 682-685*
- Sze, J.-Y.**, *see* Ko, C.-H., *LAWP 2009 1360-1363*

T

- Tait, G.**, Slocum, M., and Richardson, R., On Multipath Propagation in Electrically Large Reflective Spaces; *LAWP 2009 232-235*
- Tak, Y.**, Park, J., and Nam, S., Mode-Based Analysis of Resonant Characteristics for Near-Field Coupled Small Antennas; *LAWP 2009 1238-1241*
- Takada, J.-I.**, *see* Kim, M., *LAWP 2009 1250-1254*
- Takada, J.-i.**, *see* Zhen, B., *LAWP 2009 1263-1267*
- Tan, D. C. H.**, *see* Guo, Y.-X., *LAWP 2009 924-926*
- Tan, T.**, and Potter, M., On the Nature of Numerical Plane Waves in FDTD; *LAWP 2009 505-508*
- Tanielian, M. H.**, *see* Gregor, R. B., *LAWP 2009 92-95*
- Tanielian, M. H.**, *see* Ziolkowski, R. W., *LAWP 2009 1329-1333*
- Tanielian, M. H.**, *see* Ziolkowski, R. W., *LAWP 2009 989-993*
- Tarng, J.-H.**, *see* Yu, Y.-C., *LAWP 2009 189-192*
- Tarng, J.-H.**, *see* Lao, R.-R., *LAWP 2009 76-79*
- Tarot, A.-C.**, *see* Vu, T.-H., *LAWP 2009 248-252*
- Tascone, R.**, *see* Virone, G., *LAWP 2009 546-549*
- Tascone, R.**, *see* Addamo, G., *LAWP 2009 1418-1421*
- Tascone, R.**, *see* Addamo, G., *LAWP 2009 1039-1042*
- Taskinen, M.**, *see* Sihvola, A., *LAWP 2009 542-545*
- Tatu, S. O.**, *see* Boukari, B., *LAWP 2009 759-762*
- Tawk, Y.**, and Christodoulou, C. G., A New Reconfigurable Antenna Design for Cognitive Radio; *LAWP 2009 1378-1381*
- Tentillier, N.**, Krasinski, F., Sauleau, R., Spingart, B., Lhermite, H., and Coquet, Ph., A Liquid-Crystal, Tunable, Ultra-Thin Fabry-Perot Resonator in Ka Band; *LAWP 2009 701-704*
- Tentzeris, E. M. M.**, *see* He, X., *LAWP 2009 798-801*
- Tentzeris, M. M.**, *see* Yang, L., *LAWP 2009 653-656*
- Thevenot, M.**, *see* Menudier, C., *LAWP 2009 315-318*
- Thevenot, M.**, *see* Menudier, C., *LAWP 2009 611-615*
- Thiel, D. V.**, *see* Galehdar, A., *LAWP 2009 244-247*
- Tiercelin, N.**, *see* Hage-Ali, S., *LAWP 2009 1306-1309*
- Tijhuis, A.**, *see* Monni, S., *LAWP 2009 220-223*
- Ting, S.-W.**, *see* Zhao, X.-W., *LAWP 2009 1390-1393*
- Tiong, K.-K.**, *see* Hsieh, H.-W., *LAWP 2009 200-203*
- Tjuatja, S.**, *see* Lu, M., *LAWP 2009 204-208*
- Torres, A.**, *see* Osaretin, I. A., *LAWP 2009 145-148*
- Townsend, A. J.**, Watson, R. J., and Hodges, D. D., Analysis of the Variability in the Raindrop Size Distribution and Its Effect on Attenuation at 20 GHz; *LAWP 2009 1210-1213*
- Trinchero, D.**, Galardini, A., Stefanelli, R., Fiorelli, B., Gianola, P., Scotti, R., and Vallauri, R., A Fraunhofer-Based Approach for the Assessment of the Field Radiated in the Fresnel Region of an Antenna; *LAWP 2009 30-33*
- Trinchero, D.**, Stefanelli, R., Longobardi, F., Galardini, A., Fiorelli, B., d'Amore, G., Anglesio, L., Benedetto, A., Trinchero, S., Borsero, M., and Vizio, G., Experimental Setup for the Characterization of Field Probes Performance in Presence of Digitally Modulated Radio Signals; *LAWP 2009 224-227*
- Trinchero, D.**, Stefanelli, R., Longobardi, F., Galardini, A., Fiorelli, B., d'Amore, G., Anglesio, L., Benedetto, A., Trinchero, S., Borsero, M., and Vizio, G., Field Probes Performance for the Measurement of Spread-Spectrum Radio Signals; *LAWP 2009 494-497*
- Trinchero, S.**, *see* Trinchero, D., *LAWP 2009 224-227*
- Trinchero, S.**, *see* Trinchero, D., *LAWP 2009 494-497*
- Truong, L. H.**, *see* Baek, Y.-H., *LAWP 2009 909-911*
- Tsen, W. F.**, and Li, H.-J., Uncoupled Impedance Matching for Capacity Maximization of Compact MIMO Arrays; *LAWP 2009 1295-1298*

Turpin, T. W., and Baktur, R., Meshed Patch Antennas Integrated on Solar Cells; *LAWP 2009 693-696*

U

Uebayashi, S., see Li, L., *LAWP 2009 881-885*

V

- Vaha-Heikkila, T.**, see Cheng, S., *LAWP 2009 383-386*
Vahldieck, R., see Alpanis, G., *LAWP 2009 279-282*
Vainikainen, P., see Holopainen, J., *LAWP 2009 592-595*
Vainikainen, P., see Ranvier, S., *LAWP 2009 686-689*
Vainikainen, P., see Geng, S., *LAWP 2009 1242-1245*
Vainikainen, P., see Poutanen, J., *LAWP 2009 1190-1193*
Valenzuela-Valdes, J. F., Martinez-Gonzalez, A. M., and Sanchez-Hernandez, D. A., Diversity Gain and MIMO Capacity for Nonisotropic Environments Using a Reverberation Chamber; *LAWP 2009 112-115*
Valerio, G., Baccarelli, P., Paulotto, S., Frezza, F., and Galli, A., Efficient Near-Field Interpolation of Mixed-Potential Green's Functions in Layered Media; *LAWP 2009 674-677*
Valero-Nogueira, A., see Kildal, P.-S., *LAWP 2009 84-87*
Valkonen, R., see Holopainen, J., *LAWP 2009 592-595*
Vallauri, R., see Trincherro, D., *LAWP 2009 30-33*
van Cappellen, W. A., see Maaskant, R., *LAWP 2009 1166-1170*
van den Bosch, I., see Ergul, ., *LAWP 2009 69-71*
Varis, J., see Cheng, S., *LAWP 2009 383-386*
Vasudevan, K., see Sarin, V. P., *LAWP 2009 779-781*
Vaughan, R. G., see Chiu, C.-Y., *LAWP 2009 767-770*
Vecchi, G., see Araque Quijano, J. L., *LAWP 2009 1046-1049*
Vegas, A., see Pereda, J. A., *LAWP 2009 724-727*
Venneri, I., see Caminita, F., *LAWP 2009 811-814*
Vetikalladi, H., Lafond, O., and Himdi, M., High-Efficient and High-Gain Superstrate Antenna for 60-GHz Indoor Communication; *LAWP 2009 1422-1425*
Viani, F., see Azaro, R., *LAWP 2009 177-180*
Viani, F., see Lizzi, L., *LAWP 2009 616-619*
Viani, F., see Lizzi, L., *LAWP 2009 568-571*
Vier, D. C., see Gregor, R. B., *LAWP 2009 92-95*
Viet-Anh, N., see ManhTuan, D., *LAWP 2009 409-413*
Villarino, R., see Gemio, J., *LAWP 2009 736-739*
Virdee, B. S., see Naser-Moghaddasi, M., *LAWP 2009 1382-1385*
Virone, G., Tascone, R., Addamo, G., and Peverini, O. A., A Design Strategy for Large Dielectric Radome Compensated Joints; *LAWP 2009 546-549*
Virone, G., see Addamo, G., *LAWP 2009 1418-1421*
Virone, G., see Addamo, G., *LAWP 2009 1039-1042*
Vizio, G., see Trincherro, D., *LAWP 2009 224-227*
Vizio, G., see Trincherro, D., *LAWP 2009 494-497*
Volakis, J. L., see Yarga, S., *LAWP 2009 287-290*
Volakis, J. L., see Koulouridis, S., *LAWP 2009 34-36*
Volakis, J. L., see Psychoudakis, D., *LAWP 2009 931-934*
Vu, T.-H., Collardey, S., Tarot, A.-C., and Mahdjoubi, K., Input Impedance of Fabry-Perot, EBG, and Leaky-Wave Antennas Excited by a Line Source; *LAWP 2009 248-252*
Vukusic, J., see Banik, B., *LAWP 2009 1299-1301*

W

- Wadefalk, N.**, see Yang, J., *LAWP 2009 64-68*
Wagner, C. L., and Young, J. L., FDTD Numerical Tests of the Convolutional PML at Extremely Low Frequencies; *LAWP 2009 1398-1401*
Wai, L. L., see Sun, M., *LAWP 2009 1364-1366*
Wallace, J. W., see Eid, A. M., *LAWP 2009 1414-1417*
Wallen, H., see Sihvola, A., *LAWP 2009 542-545*
Wallen, H., see Lindell, I. V., *LAWP 2009 877-880*
Wan, F., see Liao, S., *LAWP 2009 80-83*
Wang, B.-Z., see Zheng, G., *LAWP 2009 794-797*
Wang, B.-Z., see Liu, X., *LAWP 2009 1426-1429*
Wang, B.-Z., see Pang, J.-Y., *LAWP 2009 1223-1226*
Wang, C., see Huang, C., *LAWP 2009 912-915*
Wang, C. H., see Nicholson, K. J., *LAWP 2009 1103-1106*
Wang, C.-J., see Wu, J.-W., *LAWP 2009 1146-1149*

- Wang, G.**, see Ding, W., *LAWP 2009 1310-1313*
Wang, G.-M., see Yu, Z.-W., *LAWP 2009 1325-1328*
Wang, H., Narayanan, R. M., and Zhou, Z. O., Through-Wall Imaging of Moving Targets Using UWB Random Noise Radar; *LAWP 2009 802-805*
Wang, J., see Zhou, H., *LAWP 2009 538-541*
Wang, S., see Guo, L., *LAWP 2009 554-557*
Wang, S.-Y., Lai, D.-Y., and Chen, F.-C., A Low-Profile Switchable Quadripolarization Diversity Aperture-Coupled Patch Antenna; *LAWP 2009 522-524*
Wang, W., see Liao, S., *LAWP 2009 80-83*
Wang, W.-B., see Zhao, A.-X., *LAWP 2009 275-278*
Wang, W.-Q., Near-Space Wide-Swath Radar Imaging With Multiaperture Antenna; *LAWP 2009 461-464*
Wang, X., Feng, Z., and Luk, K.-M., Pattern and Polarization Diversity Antenna With High Isolation for Portable Wireless Devices; *LAWP 2009 209-211*
Wang, X., see Weile, D. S., *LAWP 2009 1370-1373*
Wang, Y., Xia, H., and Cao, Q., Analysis of ELF Propagation Along the Earth Surface Using the FDTD Model Based on the Spherical Triangle Meshing; *LAWP 2009 1017-1020*
Wang, Y.-K., see Chen, H.-M., *LAWP 2009 173-176*
Wang, Z., Fang, S., Fu, S., and Lu, S., Dual-Band Probe-Fed Stacked Patch Antenna for GNSS Applications; *LAWP 2009 100-103*
Wang, Z., see Fu, S., *LAWP 2009 1014-1016*
Watson, R. J., see Townsend, A. J., *LAWP 2009 1210-1213*
Weile, D. S., and Wang, X., Strong Singularity Reduction for Curved Patches for the Integral Equations of Electromagnetics; *LAWP 2009 1370-1373*
Weiss, M. D., Smith, J. L., and Bach, J., RF Coupling in a 433-MHz Biotelemetry System for an Artificial Hip; *LAWP 2009 916-919*
Werner, D. H., see Kwon, D.-H., *LAWP 2009 1115-1118*
Wiesbeck, W., see Martinez-Fernandez, J., *LAWP 2009 517-521*
Wiesbeck, W., see Adamiuk, G., *LAWP 2009 981-984*
Wong, C. P., see Yang, L., *LAWP 2009 653-656*
Wong, S. H., see Lau, K. L., *LAWP 2009 340-343*
Woo, J. M., see Lee, H. R., *LAWP 2009 823-825*
Wu, B., Okoniewski, M., and Potter, M. E., Design and Fabrication of a Ternary Switch for MEMS-Controlled Reflectarray Elements; *LAWP 2009 998-1001*
Wu, B. Q., and Luk, K.-M., A Broadband Dual-Polarized Magneto-Electric Dipole Antenna With Simple Feeds; *LAWP 2009 60-63*
Wu, B. Q., and Luk, K.-M., A Magneto-Electric Dipole With a Modified Ground Plane; *LAWP 2009 627-629*
Wu, B. Q., and Luk, K.-M., A Wideband, Low-Profile, Conical-Beam Antenna With Horizontal Polarization for Indoor Wireless Communications; *LAWP 2009 634-636*
Wu, J.-W., Wang, C.-J., and Jou, C. F., Method of Suppressing the Side Lobe of a Tapered Short Leaky Wave Antenna; *LAWP 2009 1146-1149*
Wu, K., see Boukari, B., *LAWP 2009 759-762*
Wu, K., see Ding, Y., *LAWP 2009 561-564*
Wu, L., see Fang, Y., *LAWP 2009 414-417*
Wu, L.-S., see Hu, X.-D., *LAWP 2009 1374-1377*
Wu, M.-F., see Li, Y., *LAWP 2009 1182-1185*

X

- Xia, H.**, see Wang, Y., *LAWP 2009 1017-1020*
Xia, T., Yang, S., and Nie, Z., Design of a Tapered Balun for Broadband Arrays With Closely Spaced Elements; *LAWP 2009 1291-1294*
Xia, Y., Sullivan, D. M., Li, Z., and Olsen, R., Dual Problem Space FDTD Simulation for Underwater ELF Applications; *LAWP 2009 498-501*
Xia, Y., see Sullivan, D. M., *LAWP 2009 1080-1083*
Xiao, S.-Q., see Pang, J.-Y., *LAWP 2009 1223-1226*
Xie, Y., see Deng, C., *LAWP 2009 1394-1397*
Xie, Y.-J., see Deng, C., *LAWP 2009 240-243*
Xin, Y.-C., see Kim, J. H., *LAWP 2009 1337-1340*
Xiong, H., see He, X., *LAWP 2009 798-801*
Xiong, J., Li, H., Jin, Y., and He, S., Modified TM₀₂₀ Mode of a Rectangular Patch Antenna Partially Loaded With Metamaterial for Dual-Band Applications; *LAWP 2009 1006-1009*
Xiong, J., see Li, H., *LAWP 2009 1107-1110*
Xiong, J., see Zhang, S., *LAWP 2009 1279-1282*
Xu, J., see Chen, P., *LAWP 2009 120-123*
Xu, J., see Liao, S., *LAWP 2009 80-83*
Xu, X., see He, M., *LAWP 2009 530-533*
Xu, Z., see Zhou, H., *LAWP 2009 538-541*

Y

- Yamauchi, J.**, *see* Shibayama, J., *LAWP 2009 890-893*
- Yan, J.-B.**, *see* Chiu, C.-Y., *LAWP 2009 767-770*
- Yang, B.**, Shao, X., Balzano, Q., Goldsman, N., and Metzger, G., 916 MHz F-Inverted Compact Antenna (FICA) for Highly Integrated Transceivers; *LAWP 2009 181-184*
- Yang, J.**, Chen, X., Wadefalk, N., and Kildal, P.-S., Design and Realization of a Linearly Polarized Eleven Feed for 10 GHz; *LAWP 2009 64-68*
- Yang, L.**, Zhang, R., Staiculescu, D., Wong, C. P., and Tentzeris, M. M., A Novel Conformal RFID-Enabled Module Utilizing Inkjet-Printed Antennas and Carbon Nanotubes for Gas-Detection Applications; *LAWP 2009 653-656*
- Yang, S.**, *see* Zhang, C., *LAWP 2009 216-219*
- Yang, S.**, *see* Ho, S. L., *LAWP 2009 947-950*
- Yang, S.**, *see* Xia, T., *LAWP 2009 1291-1294*
- Yang, Y.**, *see* Du, L., *LAWP 2009 775-778*
- Yao, K.**, *see* Liu, X., *LAWP 2009 1154-1157*
- Yarga, S.**, Sertel, K., and Volakis, J. L., Multilayer Dielectric Resonator Antenna Operating at Degenerate Band Edge Modes; *LAWP 2009 287-290*
- Ye, Z. B.**, *see* Du, L., *LAWP 2009 775-778*
- Yi, S.**, *see* Bhatti, R. A., *LAWP 2009 1430-1433*
- Yildirim, B. S.**, Cetiner, B. A., Roqueta, G., and Jofre, L., Integrated Bluetooth and UWB Antenna; *LAWP 2009 149-152*
- Yilmaz, A. E.**, *see* Li, Y., *LAWP 2009 1182-1185*
- Yin, W.-Y.**, *see* Hu, X.-D., *LAWP 2009 1374-1377*
- Ying, Z.**, *see* Zhang, S., *LAWP 2009 1279-1282*
- Yla-Oijala, P.**, *see* Sihvola, A., *LAWP 2009 542-545*
- Yong, S.**, and Bernhard, J. T., Investigation Into the Relationship Between Microstrip Patch Width and Efficiency; *LAWP 2009 1171-1174*
- You, K. Y.**, Abbas, Z., Khalid, K., and Kong, N. F., Improved Formulation for Admittance of Thin and Short Monopole Driving From Coaxial Line Into Dissipative Media; *LAWP 2009 1246-1249*
- Youn, H.-S.**, *see* Lim, S. Y., *LAWP 2009 583-586*
- Young, J. L.**, *see* Adams, R. S., *LAWP 2009 165-168*
- Young, J. L.**, *see* Wagner, C. L., *LAWP 2009 1398-1401*
- Yousefi, L.**, *see* Attia, H., *LAWP 2009 1198-1201*
- Yu, Y.**, *see* Coetzee, J. C., *LAWP 2009 291-294*
- Yu, Y.-C.**, and Tang, J.-H., A Novel Modified Multiband Planar Inverted-F Antenna; *LAWP 2009 189-192*
- Yu, Z.-W.**, Wang, G.-M., and Zhang, C.-X., A Broadband Planar Monopulse Antenna Array of C-Band; *LAWP 2009 1325-1328*
- Yuan, C.-W.**, *see* Zhang, Q., *LAWP 2009 1357-1359*
- Yuan, J.**, Gu, C., and Han, G., Efficient Generation of Method of Moments Matrices Using Equivalent Dipole-Moment Method; *LAWP 2009 716-719*
- Yuan, N.**, *see* Fu, Y., *LAWP 2009 705-707*
- Yuan, Q.**, *see* Li, L., *LAWP 2009 740-743*
- Yuan, Q.**, *see* He, M., *LAWP 2009 530-533*
- Yuan, Q.**, *see* Li, L., *LAWP 2009 881-885*
- Yuce, M. R.**, *see* Dissanayake, T., *LAWP 2009 153-156*
- Yun, J. X.**, *see* Chiu, C.-Y., *LAWP 2009 767-770*
- Yun, Z.**, Lim, S. Y., and Iskander, M. F., Use of Geospatial Resources for Radio Propagation Prediction in Urban Areas; *LAWP 2009 587-591*
- Yun, Z.**, *see* Lim, S. Y., *LAWP 2009 583-586*

Z

- Zaghloul, A. I.**, *see* Dorsey, W. M., *LAWP 2009 603-606*
- Zaghloul, A. I.**, and Dong, J., A Concept for a Lens Configuration for 360° Scanning; *LAWP 2009 985-988*
- Zangar, H.**, *see* Rmili, H., *LAWP 2009 328-331*
- Zeierman, E.**, *see* Remez, J., *LAWP 2009 847-851*
- Zelenchuk, D. E.**, and Fusco, V. F., Planar High-Gain WLAN PCB Antenna; *LAWP 2009 1314-1316*
- Zen, Y.-S.**, *see* Lin, B.-Q., *LAWP 2009 1065-1068*
- Zeni, E.**, *see* Azaro, R., *LAWP 2009 177-180*
- Zeni, E.**, *see* Lizzi, L., *LAWP 2009 568-571*
- Zeni, E.**, *see* Azaro, R., *LAWP 2009 905-908*
- Zhang, C.**, Yang, S., El-Ghazaly, S., Fathy, A. E., and Nair, V. K., A Low-Profile Branched Monopole Laptop Reconfigurable Multiband Antenna for Wireless Applications; *LAWP 2009 216-219*
- Zhang, C.-X.**, *see* Yu, Z.-W., *LAWP 2009 1325-1328*

- Zhang, J.**, Smith, D. B., Hanlen, L. W., Miniutti, D., Rodda, D., and Gilbert, B., Stability of Narrowband Dynamic Body Area Channel; *LAWP 2009 53-56*
- Zhang, J.**, *see* Fang, Y., *LAWP 2009 414-417*
- Zhang, M.**, *see* Liang, H., *LAWP 2009 1272-1274*
- Zhang, Q.**, *see* He, X., *LAWP 2009 798-801*
- Zhang, Q.**, Yuan, C.-W., and Liu, L., A Coaxial Corrugated Dual-Band Horn Feed; *LAWP 2009 1357-1359*
- Zhang, R.**, *see* Yang, L., *LAWP 2009 653-656*
- Zhang, S.**, and Zhu, M., Comment on "Short-Delay Multipath Mitigation Technique Based on Virtual Multipath"; *LAWP 2009 1434-1435*
- Zhang, S.**, *see* Zhou, H., *LAWP 2009 538-541*
- Zhang, S.**, Ying, Z., Xiong, J., and He, S., Ultrawideband MIMO/Diversity Antennas With a Tree-Like Structure to Enhance Wideband Isolation; *LAWP 2009 1279-1282*
- Zhang, W.**, *see* Zuo, J., *LAWP 2009 141-144*
- Zhang, W.**, *see* Han, G., *LAWP 2009 502-504*
- Zhang, Y.**, *see* Zhao, X.-W., *LAWP 2009 1390-1393*
- Zhang, Y. P.**, *see* Han, G., *LAWP 2009 502-504*
- Zhang, Y. P.**, *see* Sun, M., *LAWP 2009 1364-1366*
- Zhang, Z.**, and Law, C. L., Reply to "Comment on 'Short-Delay Multipath Mitigation Technique Based on Virtual Multipath'"; *LAWP 2009 1435*
- Zhang, Z.**, *see* Celik, N., *LAWP 2009 236-239*
- Zhang, Z.**, *see* Zhong, H., *LAWP 2009 465-467*
- Zhang, Z.**, *see* Li, Y., *LAWP 2009 1069-1071*
- Zhao, A.-X.**, Huang, B.-K., and Wang, W.-B., Study of Low-Dispersion ADI-FDTD Method With Isotropic Finite Difference; *LAWP 2009 275-278*
- Zhao, G.**, *see* Li, Q.-Y., *LAWP 2009 1119-1122*
- Zhao, H.**, and Shen, Z., Weighted Laguerre Polynomials-Finite Difference Method for Time-Domain Modeling of Thin Wire Antennas in a Loaded Cavity; *LAWP 2009 1131-1134*
- Zhao, X.-W.**, Zhang, Y., Sarkar, T. K., Ting, S.-W., and Liang, C.-H., Analysis of a Traveling-Wave Waveguide Array With Narrow-Wall Slots Using Higher Order Basis Functions in Method of Moments; *LAWP 2009 1390-1393*
- Zhao, Z.**, *see* Huang, C., *LAWP 2009 912-915*
- Zhen, B.**, Kim, M., Takada, J.-i., and Kohno, R., Characterization and Modeling of Dynamic On-Body Propagation at 4.5 GHz; *LAWP 2009 1263-1267*
- Zheng, G.**, and Wang, B.-Z., Analysis of Scattering from Multiple Objects by the Finite-Difference Frequency-Domain Method With an Iteration-Free Multiregion Technique; *LAWP 2009 794-797*
- Zheng, H.-X.**, and Ng, H. K., Analysis of Dielectric Resonator Antenna Array by Using Unconditionally Stable Pseudospectral Time-Domain Method; *LAWP 2009 344-347*
- Zheng, Q.-R.**, *see* Lin, B.-Q., *LAWP 2009 1065-1068*
- Zhong, H.**, Zhang, Z., Chen, W., Feng, Z., and Iskander, M. F. I., A Tripolarization Antenna Fed by Proximity Coupling and Probe; *LAWP 2009 465-467*
- Zhou, H.**, Pei, Z., Qu, S., Zhang, S., Wang, J., Duan, Z., Ma, H., and Xu, Z., A Novel High-Directivity Microstrip Patch Antenna Based on Zero-Index Metamaterial; *LAWP 2009 538-541*
- Zhou, H.**, Kefauver, N. W., and Filipovic, D. S., A Wideband Patch Antenna With Dual-Cylindrical Probe Feed; *LAWP 2009 1321-1324*
- Zhou, H.-X.**, *see* Li, W.-D., *LAWP 2009 630-633*
- Zhou, H.-X.**, *see* Li, W.-D., *LAWP 2009 782-785*
- Zhou, L.**, *see* Hu, X.-D., *LAWP 2009 1374-1377*
- Zhou, X.-L.**, *see* Hu, X.-D., *LAWP 2009 1374-1377*
- Zhou, Z. O.**, *see* Wang, H., *LAWP 2009 802-805*
- Zhu, J.**, and Eleftheriades, G. V., A Compact Transmission-Line Metamaterial Antenna With Extended Bandwidth; *LAWP 2009 295-298*
- Zhu, K. G.**, and Popovic, M., Spectral Difference Between Microwave Radar and Microwave-Induced Thermoacoustic Signals; *LAWP 2009 1259-1262*
- Zhu, M.**, *see* Zhang, S., *LAWP 2009 1434-1435*
- Zhu, X.**, *see* Chattha, H. T., *LAWP 2009 856-860*
- Ziolkowski, R. W.**, *see* Franson, S. J., *LAWP 2009 387-390*
- Ziolkowski, R. W.**, *see* Gregor, R. B., *LAWP 2009 92-95*
- Ziolkowski, R. W.**, Jin, P., Nielsen, J. A., Tanielian, M. H., and Holloway, C. L., Experimental Verification of Z Antennas at UHF Frequencies; *LAWP 2009 1329-1333*
- Ziolkowski, R. W.**, Lin, C.-C., Nielsen, J. A., Tanielian, M. H., and Holloway, C. L., Design and Experimental Verification of a 3D Magnetic EZ Antenna at 300 MHz; *LAWP 2009 989-993*
- Ziri-Castro, K.**, *see* Das Gupta, J. D., *LAWP 2009 682-685*
- Zohar, R.**, *see* Remez, J., *LAWP 2009 847-851*
- Zuo, J.**, Chen, X., Han, G., Li, L., and Zhang, W., An Integrated Approach to RF Antenna-Filter Co-Design; *LAWP 2009 141-144*

Zwick, T., *see* Beer, S., *LAWP 2009 771-774*
 Zwick, T., *see* Adamiuk, G., *LAWP 2009 981-984*

SUBJECT INDEX

3G

3G mobile communication

- A 3D-to-2D Transform Algorithm for Incorporating 3D Antenna Radiation Patterns in SCM. *Kanj, H.*, +, *LAWP 2009 815-818*
- A DVH/GSM/UMTS Planar Antenna for Multimode Wireless Devices. *Lizzi, L.*, +, *LAWP 2009 568-571*
- A New Printed Antenna for Multiband Wireless Applications. *Lee, Y.-C.*, +, *LAWP 2009 402-405*
- Deterministic and Statistical-Based Channel Models in the MIMO Link Evaluation. *Ali, S. M.*, +, *LAWP 2009 927-930*
- Dual-Band EBG Sectoral Antenna Using a Single-Layer FSS for UMTS Application. *Haji, M.*, +, *LAWP 2009 161-164*
- Planar Hexa-Band Inverted-F Antenna for Portable Device Applications. *Chiu, C.-W.*, +, *LAWP 2009 1099-1102*
- Temporal Dispersion Characterization of Over-Building Propagation Applied to Iso-Frequency Repeaters. *Rubio, L.*, +, *LAWP 2009 509-512*

4G

4G mobile communication

- A 3D-to-2D Transform Algorithm for Incorporating 3D Antenna Radiation Patterns in SCM. *Kanj, H.*, +, *LAWP 2009 815-818*

A

Absorbing media

- A Perfectly Matched Layer for Lossy Media at Extremely Low Frequencies. *Sullivan, D. M.*, +, *LAWP 2009 1080-1083*
- Improved Formulation for Admittance of Thin and Short Monopole Driving From Coaxial Line Into Dissipative Media. *You, K. Y.*, +, *LAWP 2009 1246-1249*

Absorption

- FDTD Numerical Tests of the Convolutional PML at Extremely Low Frequencies. *Wagner, C. L.*, +, *LAWP 2009 1398-1401*

Acoustics

- Spectral Difference Between Microwave Radar and Microwave-Induced Thermoacoustic Signals. *Zhu, K. G.*, +, *LAWP 2009 1259-1262*

Actuators

- Shaped Solid Contour Beam Reflector Antennas That Adjust to Varying Operating Conditions With Just a Few Mechanical Actuators. *Grana-Varela, M.*, +, *LAWP 2009 839-842*

Adaptive antenna arrays

- Experimental Verification of the Hybrid Smart Antenna Algorithm With Modulated Waveforms. *Celik, N.*, +, *LAWP 2009 236-239*
- Performance Improvement of a Wideband MIMO System by Using Two-Port RLWA. *Piazza, D.*, +, *LAWP 2009 830-834*

Adaptive systems

- Compact Reconfigurable Antenna Array for Adaptive MIMO Systems. *Li, Z.*, +, *LAWP 2009 1317-1320*

Airborne radar

- Near-Space Wide-Swath Radar Imaging With Multiaperture Antenna. *Wang, W.-Q.*, +, *LAWP 2009 461-464*

Aircraft communication

- Path-Loss and Time-Dispersion Parameters of UWB Signals in a Military Airplane. *Spiliotopoulos, C. G.*, +, *LAWP 2009 790-793*

Amplification

- Employing EBG Structures in Multiantenna Systems for Improving Isolation and Diversity Gain. *Payandehjoo, K.*, +, *LAWP 2009 1162-1165*

Anechoic chambers (electromagnetic)

- Echo-Cancellation Technique With Recursive Data in Nonanechoic Test Sites. *Moon, J.-I.*, +, *LAWP 2009 558-560*

Anisotropic media

- Excitation of Plane Waves for FDTD Analysis of Anisotropic Layered Media. *Fang, Y.*, +, *LAWP 2009 414-417*

- Input Impedance and Resonant Frequency of a Printed Dipole With Arbitrary Length Embedded in Stratified Uniaxial Anisotropic Dielectrics. *Braaten, B. D.*, +, *LAWP 2009 806-810*
- Invisibility Cloaks Modeled by Anisotropic Metamaterials Based on Inductor-Capacitor Networks. *Liu, X.*, +, *LAWP 2009 1154-1157*
- Multilayer Dielectric Resonator Antenna Operating at Degenerate Band Edge Modes. *Yarga, S.*, +, *LAWP 2009 287-290*

Antenna accessories

- A Compact Planar MIMO Antenna System of Four Elements With Similar Radiation Characteristics and Isolation Structure. *Li, H.*, +, *LAWP 2009 1107-1110*

Antenna arrays

- A Broadband Planar Monopulse Antenna Array of C-Band. *Yu, Z.-W.*, +, *LAWP 2009 1325-1328*
 - A Combinatorial Method for Antenna Array Design in Minimum Redundancy MIMO Radars. *Dong, J.*, +, *LAWP 2009 1150-1153*
 - A Concept for a Lens Configuration for 360° Scanning. *Zaghloul, A. I.*, +, *LAWP 2009 985-988*
 - A Dual-Frequency Omnidirectional Antenna for Polarization Diversity of MIMO and Wireless Communication Applications. *Ahn, C.-H.*, +, *LAWP 2009 966-969*
 - A New Spatial Correlation Formulation of Arbitrary AoA Scenarios. *Hsieh, P.-H.*, +, *LAWP 2009 398-401*
 - A Novel Pattern Reconfigurable Antenna Array for Diversity Systems. *Cai, Y.*, +, *LAWP 2009 1227-1230*
 - A Simple and Effective Procedure for Connector Deembedding in Antenna Arrays. *Pinchera, D.*, +, *LAWP 2009 534-537*
 - Boresight Slope Optimization of Subarrayed Linear Arrays Through the Contiguous Partition Method. *Manica, L.*, +, *LAWP 2009 253-257*
 - Compact Antenna Array With Port Decoupling for LTE-Standardized Mobile Phones. *Bhatti, R. A.*, +, *LAWP 2009 1430-1433*
 - Compact Reconfigurable Antenna Array for Adaptive MIMO Systems. *Li, Z.*, +, *LAWP 2009 1317-1320*
 - Compact Ultrawideband UHF Array Antenna for Through-Wall Radar Applications. *Ren, Y.-J.*, +, *LAWP 2009 1302-1305*
 - Design and Fabrication of a Ternary Switch for MEMS-Controlled Reflectarray Elements. *Wu, B.*, +, *LAWP 2009 998-1001*
 - Design of Decoupling Networks for Circulant Symmetric Antenna Arrays. *Coetzee, J. C.*, +, *LAWP 2009 291-294*
 - Deterministic and Statistical-Based Channel Models in the MIMO Link Evaluation. *Ali, S. M.*, +, *LAWP 2009 927-930*
 - EBG-Based Circular Waveguide Rod Arrays With Improved Scanning Characteristics. *Fu, Y.*, +, *LAWP 2009 705-707*
 - Effect of Pedestrian Movement on MIMO-OFDM Channel Capacity in an Indoor Environment. *Das Gupta, J. D.*, +, *LAWP 2009 682-685*
 - High-Resolution Probes for Near-Field Measurements of Reflectarray Antennas. *Dieter, S.*, +, *LAWP 2009 157-160*
 - Highly Efficient Leaky-Wave Antenna Array Using a Power-Recycling Series Feeding Network. *Nguyen, H. V.*, +, *LAWP 2009 441-444*
 - Link Performance Improvement Using Reconfigurable Multiantenna Systems. *Sukumar, C. R.*, +, *LAWP 2009 873-876*
 - Mutual Coupling Compensation in Arrays Using a Spherical Wave Expansion of the Radiated Field. *Corcoles, J.*, +, *LAWP 2009 108-111*
 - Optimal Synthesis of Directivity Constrained Pencil Beams by Means of Circularly Symmetric Aperture Fields. *Bucci, O. M.*, +, *LAWP 2009 1386-1389*
 - Sidelobe Reduction Through Element Phase Control in Uniform Subarrayed Array Antennas. *Rocca, P.*, +, *LAWP 2009 437-440*
 - Slot Antennas With an Extended Ground for Multiple-Antenna Systems in Compact Wireless Devices. *Lai, M.-I.*, +, *LAWP 2009 19-22*
 - Synthesis of Plane-Wave Generators via Nonredundant Sparse Arrays. *D'Urso, M.*, +, *LAWP 2009 449-452*
 - The Use of Frequency-Orthogonal Pseudonoise (FOPN) Sounding Signals for Identifying Transmissions From Different Transmit Antennas. *Dahman, G. S.*, +, *LAWP 2009 657-660*
 - Two-Element PIFA Antenna System With Inherent Performance of Low Mutual Coupling. *Pang, J.-Y.*, +, *LAWP 2009 1223-1226*
 - Uncoupled Impedance Matching for Capacity Maximization of Compact MIMO Arrays. *Tsen, W. F.*, +, *LAWP 2009 1295-1298*
- #### Antenna feeds
- A Broadband Dual-Polarized Magneto-Electric Dipole Antenna With Simple Feeds. *Wu, B. Q.*, +, *LAWP 2009 60-63*
 - A Compact Dual-Band Dielectric Resonator Antenna Using a Parasitic Slot. *Chen, H.-M.*, +, *LAWP 2009 173-176*

A Dual-Mode Quadrature-Fed Wideband Circularly Polarized Dielectric Resonator Antenna. *Li, B.*, +, *LAWP 2009 1036-1038*

A Low-Profile Switchable Quadrupolarization Diversity Aperture-Coupled Patch Antenna. *Wang, S.-Y.*, +, *LAWP 2009 522-524*

A Novel Compact Dual-Linear Polarized UWB Antenna for VHF/UHF Applications. *Osaretin, I. A.*, +, *LAWP 2009 145-148*

A Novel Compact Quad-Band Narrow Strip-Loaded Printed Monopole Antenna. *Chen, C.-C.*, +, *LAWP 2009 974-976*

A Quadband Antenna With Reconfigurable Feedings. *Li, Y.*, +, *LAWP 2009 1069-1071*

A Simple Strip Model in the Volume-Surface Integral Equation for Analysis of Arbitrary Probe-Fed Conformal Microstrip Antennas. *He, M.*, +, *LAWP 2009 530-533*

A Tripolarization Antenna Fed by Proximity Coupling and Probe. *Zhong, H.*, +, *LAWP 2009 465-467*

Broadband Slot-Type Bruce Array Fed by a Microstrip-to-Slotline T-Junction. *Chen, S.-Y.*, +, *LAWP 2009 116-119*

Compact Dual-Band Hybrid Dielectric Resonator Antenna With Radiating Slot. *Lin, Y.-F.*, +, *LAWP 2009 6-9*

Conformal Strip-Fed Shaped Cylindrical Dielectric Resonator: Improved Design of a Wideband Wireless Antenna. *Chu, L. C. Y.*, +, *LAWP 2009 482-485*

Coplanar Inverted-F Antenna With Open-End Ground Slots for Multiband Operation. *Razali, A. R.*, +, *LAWP 2009 1029-1032*

Coplanar Waveguide-Fed Rectangular Antenna With an Inverted-L Stub for Ultrawideband Communications. *Lin, W.-P.*, +, *LAWP 2009 228-231*

Design and Evaluation of a Compact Antenna for Implant-to-Air UWB Communication. *Dissanayake, T.*, +, *LAWP 2009 153-156*

Design and Experimental Verification of a 3D Magnetic EZ Antenna at 300 MHz. *Ziolkowski, R. W.*, +, *LAWP 2009 989-993*

Design and Realization of a Linearly Polarized Eleven Feed for 1 10 GHz. *Yang, J.*, +, *LAWP 2009 64-68*

Dual-Band Probe-Fed Stacked Patch Antenna for GNSS Applications. *Wang, Z.*, +, *LAWP 2009 100-103*

Efficiency-Enhanced and Size-Reduced Coupled Twin Slots Capacitively Fed by Conductor-Backed Coplanar Waveguide. *Lee, C.-H.*, +, *LAWP 2009 1033-1035*

Efficient, Low-Cost Integrated Waveguide-Fed Planar Antenna Array for Ku-Band Applications. *Borji, A.*, +, *LAWP 2009 336-339*

Highly Efficient Leaky-Wave Antenna Array Using a Power-Recycling Series Feeding Network. *Nguyen, H. V.*, +, *LAWP 2009 441-444*

Impedance Measurement of Properly Excited Small Balanced Antennas. *Kaldjob, E. B.*, +, *LAWP 2009 193-195*

Inclusion of the Feeding Network Effects in the Generalized-Scattering-Matrix Formulation of a Finite Array. *Rubio, J.*, +, *LAWP 2009 819-822*

Integrated Bluetooth and UWB Antenna. *Yildirim, B. S.*, +, *LAWP 2009 149-152*

Investigation of a Novel Wideband Feeding Technique for Dielectric Ring Resonator Antennas. *Chang, W.*, +, *LAWP 2009 348-351*

Method of Suppressing the Side Lobe of a Tapered Short Leaky Wave Antenna. *Wu, J.-W.*, +, *LAWP 2009 1146-1149*

Miniaturized Microstrip-Fed Tapered-Slot Antenna With Ultrawideband Performance. *Abbos, A. M.*, +, *LAWP 2009 690-692*

Multifed Sectoral EBG Antenna for WiMAX Applications. *Serhal, D.*, +, *LAWP 2009 620-623*

Near-Field Focusing With a Corrugated Surface. *Imani, M. F.*, +, *LAWP 2009 421-424*

New Pawn-Shaped Dielectric Ring Resonator Loaded Hybrid Monopole Antenna for Improved Ultrawide Bandwidth. *Guha, D.*, +, *LAWP 2009 1178-1181*

Printed Broadband Monopole Antenna for WLAN/WiMAX Applications. *Chen, I.-F.*, +, *LAWP 2009 472-474*

Twin Orthogonally Polarized UWB Aperture Antenna Elements With Optimized Profile Feed for Optimal Adaptation. *Martinez-Fernandez, J.*, +, *LAWP 2009 517-521*

Weighted Laguerre Polynomials-Finite Difference Method for Time-Domain Modeling of Thin Wire Antennas in a Loaded Cavity. *Zhao, H.*, +, *LAWP 2009 1131-1134*

Wideband Folded Feed L-Slot Folded Patch Antenna. *Lau, K. L.*, +, *LAWP 2009 340-343*

Wideband Planar Patch Antenna Array on Cylindrical Surface. *Abbaspour, M.*, +, *LAWP 2009 394-397*

Wideband Single-Feed Circularly Polarized Patch Antenna With Conical Radiation Pattern. *Guo, Y.-X.*, +, *LAWP 2009 924-926*

Antenna measurements

3D Image Reconstruction in Microwave Tomography Using an Efficient FDTD Model. *Fhager, A.*, +, *LAWP 2009 1353-1356*

A Broadband Planar Monopulse Antenna Array of C-Band. *Yu, Z.-W.*, +, *LAWP 2009 1325-1328*

A Crooked U-Slot Dual-Band Antenna With Radial Stub Feeding. *Bae, H. R.*, +, *LAWP 2009 1345-1348*

A Millimeter-Wave Microstrip Antenna Array on Ultra-Flexible Micromachined Polydimethylsiloxane (PDMS) Polymer. *Hage-Ali, S.*, +, *LAWP 2009 1306-1309*

A Miniaturized Dual-Band Frequency Selective Surface (FSS) With Closed Loop and Its Complementary Pattern. *Hu, X.-D.*, +, *LAWP 2009 1374-1377*

A Wideband Patch Antenna With Dual-Cylindrical Probe Feed. *Zhou, H.*, +, *LAWP 2009 1321-1324*

Application of Bionics in Antenna Radar Cross Section Reduction. *Jiang, W.*, +, *LAWP 2009 1275-1278*

Characterization and Modeling of Dynamic On-Body Propagation at 4.5 GHz. *Zhen, B.*, +, *LAWP 2009 1263-1267*

Compact Antenna Array With Port Decoupling for LTE-Standardized Mobile Phones. *Bhatti, R. A.*, +, *LAWP 2009 1430-1433*

Compact Reconfigurable Antenna Array for Adaptive MIMO Systems. *Li, Z.*, +, *LAWP 2009 1317-1320*

Compact Ultrawideband UHF Array Antenna for Through-Wall Radar Applications. *Ren, Y.-J.*, +, *LAWP 2009 1302-1305*

CPW-Fed Planar Printed Monopole Antenna With Impedance Bandwidth Enhanced. *Deng, C.*, +, *LAWP 2009 1394-1397*

Experimental Verification of Z Antennas at UHF Frequencies. *Ziolkowski, R. W.*, +, *LAWP 2009 1329-1333*

High-Efficient and High-Gain Superstrate Antenna for 60-GHz Indoor Communication. *Vettikalladi, H.*, +, *LAWP 2009 1422-1425*

Hybrid Integration of a Bowtie Slot Antenna and a Quantum Dot Mode-Locked Laser. *Kim, J. H.*, +, *LAWP 2009 1337-1340*

Integration of Grid Array Antenna in Chip Package for Highly Integrated 60-GHz Radios. *Sun, M.*, +, *LAWP 2009 1364-1366*

Microwave S-Parameter Characterization of an Antenna-Coupled Catadioptric Lens. *Banik, B.*, +, *LAWP 2009 1299-1301*

Miniaturized Planar Annular Slot Antenna Design Utilizing Shorting Conducting Strip. *Ko, C.-H.*, +, *LAWP 2009 1360-1363*

Planar High-Gain WLAN PCB Antenna. *Zelenchuk, D. E.*, +, *LAWP 2009 1314-1316*

Statistical Model for 4.5-GHz Narrowband On-Body Propagation Channel With Specific Actions. *Kim, M.*, +, *LAWP 2009 1250-1254*

Ultrawide Bandwidth Umbrella-Shaped Microstrip Monopole Antenna Using Spiral Artificial Magnetic Conductor (SAMC). *Elsheakh, D. N.*, +, *LAWP 2009 1255-1258*

Ultrawideband MIMO/Diversity Antennas With a Tree-Like Structure to Enhance Wideband Isolation. *Zhang, S.*, +, *LAWP 2009 1279-1282*

Ultrawideband Speech Sensing. *Eid, A. M.*, +, *LAWP 2009 1414-1417*

Antenna phased arrays

Frequency-Selective Surface to Prevent Interference Between Radar and SATCOM Antennas. *Monni, S.*, +, *LAWP 2009 220-223*

Novel Dual Circularly Polarized Radiating Element for Spherical Phased-Array Application. *Kumar, C.*, +, *LAWP 2009 826-829*

Perturbation Technique to Analyze Mutual Coupling in Reflectarrays. *Jamaluddin, M. H.*, +, *LAWP 2009 697-700*

Polarization Constraints in Dual-Polarized Phased Arrays Derived From an Infinite Current Sheet Model. *Boryszenko, A. O.*, +, *LAWP 2009 955-958*

Retrodirective Antenna Spatial Data Protection. *Fusco, V. F.*, +, *LAWP 2009 490-493*

Antenna radiation patterns

916 MHz F-Inverted Compact Antenna (FICA) for Highly Integrated Transceivers. *Yang, B.*, +, *LAWP 2009 181-184*

A 3D-to-2D Transform Algorithm for Incorporating 3D Antenna Radiation Patterns in SCM. *Kanj, H.*, +, *LAWP 2009 815-818*

A Broadband Dual-Mode Monopole Antenna Using NRI-TL Metamaterial Loading. *Antoniades, M. A.*, +, *LAWP 2009 258-261*

A Broadband Microstrip Antenna With Improved Gain for Noncontact Vital Sign Radar Detection. *Park, Z.*, +, *LAWP 2009 939-942*

A Coaxial Corrugated Dual-Band Horn Feed. *Zhang, Q.*, +, *LAWP 2009 1357-1359*

A Compact Dual-Band Dielectric Resonator Antenna Using a Parasitic Slot. *Chen, H.-M.*, +, *LAWP 2009 173-176*

A Compact Multiband Antenna Based on DNG ZOR for Wireless Mobile System. *Ji, J. K.*, +, *LAWP 2009 920-923*

- A Compact Planar MIMO Antenna System of Four Elements With Similar Radiation Characteristics and Isolation Structure. *Li, H.*, +, *LAWP 2009 1107-1110*
- A Concept for a Lens Configuration for 360 ° Scanning. *Zaghloul, A. I.*, +, *LAWP 2009 985-988*
- A Coplanar Reconfigurable Folded Slot Antenna Without Bias Network for WLAN Applications. *Anagnostou, D. E.*, +, *LAWP 2009 1057-1060*
- A Crooked U-Slot Dual-Band Antenna With Radial Stub Feeding. *Bae, H. R.*, +, *LAWP 2009 1345-1348*
- A Dual-Frequency Omnidirectional Antenna for Polarization Diversity of MIMO and Wireless Communication Applications. *Ahn, C.-H.*, +, *LAWP 2009 966-969*
- A Dual-Mode Quadrature-Fed Wideband Circularly Polarized Dielectric Resonator Antenna. *Li, B.*, +, *LAWP 2009 1036-1038*
- A Fraunhofer-Based Approach for the Assessment of the Field Radiated in the Fresnel Region of an Antenna. *Trincherio, D.*, +, *LAWP 2009 30-33*
- A Ku-K Dual-Band Compact Circular Corrugated Horn for Satellite Communications. *Addamo, G.*, +, *LAWP 2009 1418-1421*
- A Low Q Electrically Small Magnetic (TE Mode) Dipole. *Best, S. R.*, +, *LAWP 2009 572-575*
- A Magneto-Electric Dipole With a Modified Ground Plane. *Wu, B. Q.*, +, *LAWP 2009 627-629*
- A New Printed Antenna for Multiband Wireless Applications. *Lee, Y.-C.*, +, *LAWP 2009 402-405*
- A New Printed Slot Loop Antenna With Tunable Strips for 2.4- and 5-GHz Wireless Applications. *Lee, Y.-C.*, +, *LAWP 2009 356-358*
- A New Reconfigurable Antenna Design for Cognitive Radio. *Tawk, Y.*, +, *LAWP 2009 1378-1381*
- A Novel Broadband Plate-Loaded Planar Monopole Antenna. *Mazinani, S. M.*, +, *LAWP 2009 1123-1126*
- A Novel Compact Dual-Linear Polarized UWB Antenna for VHF/UHF Applications. *Osaretin, I. A.*, +, *LAWP 2009 145-148*
- A Novel Pattern Reconfigurable Antenna Array for Diversity Systems. *Cai, Y.*, +, *LAWP 2009 1227-1230*
- A Quadband Antenna With Reconfigurable Feedings. *Li, Y.*, +, *LAWP 2009 1069-1071*
- A Small Dual-Band Inverted-F Antenna With a Twisted Line. *Kim, J. H.*, +, *LAWP 2009 307-310*
- A Small Printed Quasi-Self-Complementary Antenna for Ultrawideband Systems. *Guo, L.*, +, *LAWP 2009 554-557*
- A Spherical Inverted-F Antenna (SIFA). *Huff, G. H.*, +, *LAWP 2009 649-652*
- A Wideband, Low-Profile, Conical-Beam Antenna With Horizontal Polarization for Indoor Wireless Communications. *Wu, B. Q.*, +, *LAWP 2009 634-636*
- Almost Time-Independent Performance in Time-Modulated Linear Arrays. *Manica, L.*, +, *LAWP 2009 843-846*
- An HIS-Based Spiral Antenna for Pattern Reconfigurable Applications. *Deo, P.*, +, *LAWP 2009 196-199*
- An Improved Band-Rejection UWB Antenna With Resonant Patches and a Slot. *Jang, J.-W.*, +, *LAWP 2009 299-302*
- Analysis of a Traveling-Wave Waveguide Array With Narrow-Wall Slots Using Higher Order Basis Functions in Method of Moments. *Zhao, X.-W.*, +, *LAWP 2009 1390-1393*
- Antenna Diagnostics Using Arbitrary-Geometry Field Acquisition Domains. *Alvarez, Y.*, +, *LAWP 2009 375-378*
- Antenna Radiation Efficiency Measurement in an Ultrawide Frequency Range. *Miskovsky, P.*, +, *LAWP 2009 72-75*
- Boresight Slope Optimization of Subarrayed Linear Arrays Through the Contiguous Partition Method. *Manica, L.*, +, *LAWP 2009 253-257*
- Broadband Slot-Type Bruce Array Fed by a Microstrip-to-Slotline T-Junction. *Chen, S.-Y.*, +, *LAWP 2009 116-119*
- Compact Dual-Band Hybrid Dielectric Resonator Antenna With Radiating Slot. *Lin, Y.-F.*, +, *LAWP 2009 6-9*
- Compact Multiband Folded 3-D Monopole Antenna. *Kanj, H.*, +, *LAWP 2009 185-188*
- Compact Reconfigurable Antenna Array for Adaptive MIMO Systems. *Li, Z.*, +, *LAWP 2009 1317-1320*
- Compact Tapered Slot UWB Antenna With WLAN Band Rejection. *Medeiros, C. R.*, +, *LAWP 2009 661-664*
- Compact Three-Port Integrated-Antenna-Filter Modules. *Lim, E. H.*, +, *LAWP 2009 486-489*
- Compact UWB Antenna With I-Shaped Band-Notch Parasitic Element for Laptop Applications. *Choi, N.*, +, *LAWP 2009 580-582*
- Coplanar Inverted-F Antenna With Open-End Ground Slots for Multiband Operation. *Razali, A. R.*, +, *LAWP 2009 1029-1032*
- CPW-Fed Planar Printed Monopole Antenna With Impedance Bandwidth Enhanced. *Deng, C.*, +, *LAWP 2009 1394-1397*
- Cross-Polarization Cancellation in an Offset Parabolic Reflector Antenna Using a Corrugated Matched Feed. *Sharma, S. B.*, +, *LAWP 2009 861-864*
- Cylindrical Cavity-Backed Antenna. *Paek, J. K.*, +, *LAWP 2009 852-855*
- Derivation and Analysis of Spatial Correlation for 2 × 2 MIMO System. *ManhTuan, D.*, +, *LAWP 2009 409-413*
- Design of a Multiband Antenna for Mobile Handset Operations. *Hsieh, H.-W.*, +, *LAWP 2009 200-203*
- Design of a Multidirectional, High-Gain Compact Yagi Antenna. *Lim, S.*, +, *LAWP 2009 418-420*
- Design of a Novel High-Gain Dual-Band Antenna for WLAN Applications. *He, X.*, +, *LAWP 2009 798-801*
- Design of Low-Sidelobe Linear Arrays With High Aperture Efficiency and Interference Nulls. *Gomez, N. G.*, +, *LAWP 2009 607-610*
- Deterministic and Statistical-Based Channel Models in the MIMO Link Evaluation. *Ali, S. M.*, +, *LAWP 2009 927-930*
- Directive Coupled Sectorial Loops Antenna for Ultrawideband Applications. *Elsherbini, A.*, +, *LAWP 2009 576-579*
- Dual-Band EBG Sectoral Antenna Using a Single-Layer FSS for UMTS Application. *Haji, M.*, +, *LAWP 2009 161-164*
- Dual-Band Spline-Shaped PCB Antenna for Wi-Fi Applications. *Lizzi, L.*, +, *LAWP 2009 616-619*
- Dual-Frequency Printed Dipole Loaded With Split Ring Resonators. *Her-raiz-Martinez, F. J.*, +, *LAWP 2009 137-140*
- Dual-Orthogonal Polarized Antenna for UWB-IR Technology. *Adamiuk, G.*, +, *LAWP 2009 981-984*
- EBG Focal Feed Design Optimization. *Menudier, C.*, +, *LAWP 2009 315-318*
- EBG Focal Feed Improvements for Ka-Band Multibeam Space Applications. *Menudier, C.*, +, *LAWP 2009 611-615*
- Effects of Artificial Magnetic Conductors in the Design of Low-Profile High-Gain Planar Antennas With High-Permittivity Dielectric Superstrate. *Foroozesh, A.*, +, *LAWP 2009 10-13*
- Employing EBG Structures in Multiantenna Systems for Improving Isolation and Diversity Gain. *Payandehjoo, K.*, +, *LAWP 2009 1162-1165*
- Enhancement of Microstrip Monopole Antenna Bandwidth by Using EBG Structures. *Elsheakh, D. N.*, +, *LAWP 2009 959-962*
- Experimental Study of a 2-D Irregular Fractal-Jet Printed Antenna. *Rmili, H.*, +, *LAWP 2009 328-331*
- Experimental Verification of the Hybrid Smart Antenna Algorithm With Modulated Waveforms. *Celik, N.*, +, *LAWP 2009 236-239*
- Far-Field Radiation Patterns of Terahertz Wire Waveguides. *Liang, H.*, +, *LAWP 2009 1272-1274*
- FDTD Analysis of Radiation Performance of a Cylinder Plasma Antenna. *Li, X.-S.*, +, *LAWP 2009 756-758*
- Flip-Chip Interconnection Effects on 60-GHz Microstrip Antenna Performance. *Felic, G.*, +, *LAWP 2009 283-286*
- High-Efficient and High-Gain Superstrate Antenna for 60-GHz Indoor Communication. *Vetikalladi, H.*, +, *LAWP 2009 1422-1425*
- Highly Efficient Leaky-Wave Antenna Array Using a Power-Recycling Series Feeding Network. *Nguyen, H. V.*, +, *LAWP 2009 441-444*
- Improving the Cross-Polar Performance of an Offset Parabolic Reflector Antenna Using a Rectangular Matched Feed. *Sharma, S. B.*, +, *LAWP 2009 513-516*
- Inclusion of the Feeding Network Effects in the Generalized-Scattering-Matrix Formulation of a Finite Array. *Rubio, J.*, +, *LAWP 2009 819-822*
- Input Impedance and Resonant Frequency of a Printed Dipole With Arbitrary Length Embedded in Stratified Uniaxial Anisotropic Dielectrics. *Braaten, B. D.*, +, *LAWP 2009 806-810*
- Integrated Bluetooth and UWB Antenna. *Yildirim, B. S.*, +, *LAWP 2009 149-152*
- Investigation Into the Relationship Between Microstrip Patch Width and Efficiency. *Yong, S.*, +, *LAWP 2009 1171-1174*
- Link Performance Improvement Using Reconfigurable Multiantenna Systems. *Sukumar, C. R.*, +, *LAWP 2009 873-876*
- Method of Suppressing the Side Lobe of a Tapered Short Leaky Wave Antenna. *Wu, J.-W.*, +, *LAWP 2009 1146-1149*
- Miniaturized Planar Annular Slot Antenna Design Utilizing Shorting Conducting Strip. *Ko, C.-H.*, +, *LAWP 2009 1360-1363*
- Modification of the Radiation Patterns of Higher Order Modes of Triangular Printed Antennas by EBG Ground Planes. *Siakavara, K.*, +, *LAWP 2009 124-128*

- Modified TM_{020} Mode of a Rectangular Patch Antenna Partially Loaded With Metamaterial for Dual-Band Applications. *Xiong, J.*, +, *LAWP 2009 1006-1009*
- Multibeam Antenna for Telecommunications Networks Using Cylindrical EBG Structure. *Chreim, H.*, +, *LAWP 2009 665-669*
- Mutual Coupling Compensation in Arrays Using a Spherical Wave Expansion of the Radiated Field. *Corcoles, J.*, +, *LAWP 2009 108-111*
- New Development Around M-PRS Antennas for Sectoral Coverage of Telecommunication Networks With Dual Polarization. *Hajj, M.*, +, *LAWP 2009 670-673*
- Novel Antenna Concept for Compact Millimeter-Wave Automotive Radar Sensors. *Beer, S.*, +, *LAWP 2009 771-774*
- Novel Dual Circularly Polarized Radiating Element for Spherical Phased-Array Application. *Kumar, C.*, +, *LAWP 2009 826-829*
- Optically Modulated Scatterer Technique for Radiation Pattern Measurement of Small Antennas and RFID Tags. *Lao, R.-R.*, +, *LAWP 2009 76-79*
- Pattern and Polarization Diversity Antenna With High Isolation for Portable Wireless Devices. *Wang, X.*, +, *LAWP 2009 209-211*
- Performance of a Novel Ψ -Shape Microstrip Patch Antenna With Wide Bandwidth. *Sharma, S. K.*, +, *LAWP 2009 468-471*
- Polarization Constraints in Dual-Polarized Phased Arrays Derived From an Infinite Current Sheet Model. *Boryszenko, A. O.*, +, *LAWP 2009 955-958*
- Proximity Effects of Plastic Laptop Covers on Radiation Characteristics of 60-GHz Antennas. *Amadjikpe, A. L.*, +, *LAWP 2009 763-766*
- Quasi-Unidirectional Radiation Pattern of Monopole Coupled Loop Antenna. *Abdallah, M.*, +, *LAWP 2009 732-735*
- Reconfigurable Beamwidth Antenna Based on Active Partially Reflective Surfaces. *Edalati, A.*, +, *LAWP 2009 1087-1090*
- Sectoral Conical Beam Former for a 2×2 Array Antenna. *Kim, J. H.*, +, *LAWP 2009 712-715*
- Small Square Monopole Antenna for UWB Applications With Variable Frequency Band-Notch Function. *Ojaroudi, M.*, +, *LAWP 2009 1061-1064*
- Study of Folded Reflector Multibeam Antenna With Dielectric Rods as Primary Source. *Nguyen, T. P.*, +, *LAWP 2009 786-789*
- Suppression of the Slot-Mode Radiation in a Slitted Waveguide Using Periodic Slot Perturbations. *Sutinjo, A.*, +, *LAWP 2009 550-553*
- Switched Beam Antenna Based on RF MEMS SPDT Switch on Quartz Substrate. *Cheng, S.*, +, *LAWP 2009 383-386*
- Synthesis of Plane-Wave Generators via Nonredundant Sparse Arrays. *D'Urso, M.*, +, *LAWP 2009 449-452*
- The Analysis of a Reconfigurable Antenna With a Rotating Feed Using Graph Models. *Costantine, J.*, +, *LAWP 2009 943-946*
- Tuning Method for a New Electrically Small Antenna With Low Q . *Adams, J. J.*, +, *LAWP 2009 303-306*
- Twin Orthogonally Polarized UWB Aperture Antenna Elements With Optimized Profile Feed for Optimal Adaptation. *Martinez-Fernandez, J.*, +, *LAWP 2009 517-521*
- Ultrawideband MIMO/Diversity Antennas With a Tree-Like Structure to Enhance Wideband Isolation. *Zhang, S.*, +, *LAWP 2009 1279-1282*
- Wideband Planar Patch Antenna Array on Cylindrical Surface. *Abbaspour, M.*, +, *LAWP 2009 394-397*
- Wideband Printed Microstrip Antenna for Wireless Communications. *Sarin, V. P.*, +, *LAWP 2009 779-781*
- Wideband Rectangular Dielectric Resonator Antenna With a Concave Ground Plane. *Liang, X.-L.*, +, *LAWP 2009 367-370*
- Wideband Single-Feed Circularly Polarized Patch Antenna With Conical Radiation Pattern. *Guo, Y.-X.*, +, *LAWP 2009 924-926*
- Antenna testing**
- Design and Evaluation of a Compact Antenna for Implant-to-Air UWB Communication. *Dissanayake, T.*, +, *LAWP 2009 153-156*
- Design and Experimental Verification of a 3D Magnetic EZ Antenna at 300 MHz. *Ziolkowski, R. W.*, +, *LAWP 2009 989-993*
- Impedance Measurement of Properly Excited Small Balanced Antennas. *Kaldjob, E. B.*, +, *LAWP 2009 193-195*
- Antenna theory**
- A Fraunhofer-Based Approach for the Assessment of the Field Radiated in the Fresnel Region of an Antenna. *Trincherio, D.*, +, *LAWP 2009 30-33*
- A Miniature RFID Tag Antenna Design for Metallic Objects Application. *Chen, S.-L.*, +, *LAWP 2009 1043-1045*
- Fast Analysis of Terahertz Integrated Lens Antennas Employing the Spectral Domain Ray Tracing Method. *Hailu, D. M.*, +, *LAWP 2009 37-39*
- Higher Order FEM-MoM Domain Decomposition for 3-D Electromagnetic Analysis. *Ilic, M. M.*, +, *LAWP 2009 970-973*
- Improved-Accuracy Source Reconstruction on Arbitrary 3-D Surfaces. *Araque Quijano, J. L.*, +, *LAWP 2009 1046-1049*
- Optimization and Complexity Reduction of Switch-Reconfigured Antennas Using Graph Models. *Costantine, J.*, +, *LAWP 2009 1072-1075*
- Weighted Laguerre Polynomials-Finite Difference Method for Time-Domain Modeling of Thin Wire Antennas in a Loaded Cavity. *Zhao, H.*, +, *LAWP 2009 1131-1134*
- Aperture antennas**
- Near-Space Wide-Swath Radar Imaging With Multiaperture Antenna. *Wang, W.-Q.*, +, *LAWP 2009 461-464*
- Optimal Synthesis of Directivity Constrained Pencil Beams by Means of Circularly Symmetric Aperture Fields. *Bucci, O. M.*, +, *LAWP 2009 1386-1389*
- Performance of an Electrically Small Aperture, Axially Displaced Ellipse Reflector Antenna. *Kumar, C.*, +, *LAWP 2009 903-904*
- Suppression of the Slot-Mode Radiation in a Slitted Waveguide Using Periodic Slot Perturbations. *Sutinjo, A.*, +, *LAWP 2009 550-553*
- Twin Orthogonally Polarized UWB Aperture Antenna Elements With Optimized Profile Feed for Optimal Adaptation. *Martinez-Fernandez, J.*, +, *LAWP 2009 517-521*
- Aperture-coupled antennas**
- A Circularly Polarized Element for Reflectarray Antennas. *Albooyeh, M.*, +, *LAWP 2009 319-322*
- A Low-Profile Switchable Quadripolarization Diversity Aperture-Coupled Patch Antenna. *Wang, S.-Y.*, +, *LAWP 2009 522-524*
- Apertures**
- High-Efficient and High-Gain Superstrate Antenna for 60-GHz Indoor Communication. *Vetikalladi, H.*, +, *LAWP 2009 1422-1425*
- Approximation methods**
- Analysis of a Traveling-Wave Waveguide Array With Narrow-Wall Slots Using Higher Order Basis Functions in Method of Moments. *Zhao, X.-W.*, +, *LAWP 2009 1390-1393*
- A New Spatial Correlation Formulation of Arbitrary AoA Scenarios. *Hsieh, P.-H.*, +, *LAWP 2009 398-401*
- Array signal processing**
- Blind Adaptive Beamforming for Cyclostationary Signals: A Subspace Projection Approach. *Lee, J.-H.*, +, *LAWP 2009 1406-1409*
- Experimental Verification of the Hybrid Smart Antenna Algorithm With Modulated Waveforms. *Celik, N.*, +, *LAWP 2009 236-239*
- Extended Aperture 2-D Direction Finding With a Two-Parallel-Shape-Array Using Propagator Method. *He, J.*, +, *LAWP 2009 323-327*
- Retrodirective Antenna Spatial Data Protection. *Fusco, V. F.*, +, *LAWP 2009 490-493*
- Arrays**
- A Broadband Planar Monopulse Antenna Array of C-Band. *Yu, Z.-W.*, +, *LAWP 2009 1325-1328*
- A Millimeter-Wave Microstrip Antenna Array on Ultra-Flexible Micromachined Polydimethylsiloxane (PDMS) Polymer. *Hage-Ali, S.*, +, *LAWP 2009 1306-1309*
- Analysis of a Traveling-Wave Waveguide Array With Narrow-Wall Slots Using Higher Order Basis Functions in Method of Moments. *Zhao, X.-W.*, +, *LAWP 2009 1390-1393*
- Blind Adaptive Beamforming for Cyclostationary Signals: A Subspace Projection Approach. *Lee, J.-H.*, +, *LAWP 2009 1406-1409*
- Broadband Linear Array With Photoconductive Weights. *Haupt, R. L.*, +, *LAWP 2009 1288-1290*
- Compact Antenna Array With Port Decoupling for LTE-Standardized Mobile Phones. *Bhatti, R. A.*, +, *LAWP 2009 1430-1433*
- Compact Reconfigurable Antenna Array for Adaptive MIMO Systems. *Li, Z.*, +, *LAWP 2009 1317-1320*
- Compact Ultrawideband UHF Array Antenna for Through-Wall Radar Applications. *Ren, Y.-J.*, +, *LAWP 2009 1302-1305*
- Integration of Grid Array Antenna in Chip Package for Highly Integrated 60-GHz Radios. *Sun, M.*, +, *LAWP 2009 1364-1366*
- Microwave Radar-Based Breast Cancer Detection: Imaging in Inhomogeneous Breast Phantoms. *Klemm, M.*, +, *LAWP 2009 1349-1352*
- Optimal Synthesis of Directivity Constrained Pencil Beams by Means of Circularly Symmetric Aperture Fields. *Bucci, O. M.*, +, *LAWP 2009 1386-1389*
- Planar High-Gain WLAN PCB Antenna. *Zelenchuk, D. E.*, +, *LAWP 2009 1314-1316*
- Atmospheric electromagnetic wave propagation**
- Analysis of the Variability in the Raindrop Size Distribution and Its Effect on Attenuation at 20 40 GHz. *Townsend, A. J.*, +, *LAWP 2009 1210-1213*

Automobiles

Automotive Radome Design Reflection Reduction of Stratified Media. *Fitzek, F.*, +, *LAWP 2009 1076-1079*

B**Baluns**

A Broadband Dual-Mode Monopole Antenna Using NRI-TL Metamaterial Loading. *Antoniades, M. A.*, +, *LAWP 2009 258-261*
Dual-Band Probe-Fed Stacked Patch Antenna for GNSS Applications. *Wang, Z.*, +, *LAWP 2009 100-103*
Impedance Measurement of Properly Excited Small Balanced Antennas. *Kaldjob, E. B.*, +, *LAWP 2009 193-195*

Band-pass filters

A Novel Miniaturized-Element Frequency Selective Surface Having a Stable Resonance. *Chiu, C.-N.*, +, *LAWP 2009 1175-1177*
Size Reduction and Bandwidth Enhancement of a Waveguide Bandpass Filter Using Fractal-Shaped Irises. *Oloumi, D.*, +, *LAWP 2009 1214-1217*

Bandwidth

A Broadband Planar Monopulse Antenna Array of C-Band. *Yu, Z.-W.*, +, *LAWP 2009 1325-1328*
A Wideband Patch Antenna With Dual-Cylindrical Probe Feed. *Zhou, H.*, +, *LAWP 2009 1321-1324*
Broadband Linear Array With Photoconductive Weights. *Haupt, R. L.*, +, *LAWP 2009 1288-1290*
Compact UWB Planar Monopole Antenna. *Naser-Moghadasi, M.*, +, *LAWP 2009 1382-1385*
CPW-Fed Planar Printed Monopole Antenna With Impedance Bandwidth Enhanced. *Deng, C.*, +, *LAWP 2009 1394-1397*
On the Bandwidth of High-Impedance Frequency Selective Surfaces. *Costa, F.*, +, *LAWP 2009 1341-1344*
Planar High-Gain WLAN PCB Antenna. *Zelenchuk, D. E.*, +, *LAWP 2009 1314-1316*
Ultrawide Bandwidth Umbrella-Shaped Microstrip Monopole Antenna Using Spiral Artificial Magnetic Conductor (SAMC). *Elsheakh, D. N.*, +, *LAWP 2009 1255-1258*

Bandwidth allocation

Dual-Band Probe-Fed Stacked Patch Antenna for GNSS Applications. *Wang, Z.*, +, *LAWP 2009 100-103*
Size Reduction and Bandwidth Enhancement of a Waveguide Bandpass Filter Using Fractal-Shaped Irises. *Oloumi, D.*, +, *LAWP 2009 1214-1217*
Ultrawideband Suppression of Ground Bounce Noise in Multilayer PCB Using Locally Embedded Planar Electromagnetic Band-Gap Structures. *Li, L.*, +, *LAWP 2009 740-743*

Beam steering

An HIS-Based Spiral Antenna for Pattern Reconfigurable Applications. *Deo, P.*, +, *LAWP 2009 196-199*
Beam Scanning Using Flat Transformation Electromagnetic Focusing Lenses. *Kwon, D.-H.*, +, *LAWP 2009 1115-1118*
Sidelobe Reduction Through Element Phase Control in Uniform Subarrayed Array Antennas. *Rocca, P.*, +, *LAWP 2009 437-440*
Switched Beam Antenna Based on RF MEMS SPDT Switch on Quartz Substrate. *Cheng, S.*, +, *LAWP 2009 383-386*

Biological effects of fields

A Faster Means to Estimate SAR Values for Mobile Phone Applications. *Chen, I.-F.*, +, *LAWP 2009 994-997*

Biological effects of microwaves

Microdosimetry in the Microwave Range: A Quantitative Assessment at Single Cell Level. *Liberti, M.*, +, *LAWP 2009 865-868*

Biological system modeling

Application of Bionics in Antenna Radar Cross Section Reduction. *Jiang, W.*, +, *LAWP 2009 1275-1278*

Biological tissues

Design and Evaluation of a Compact Antenna for Implant-to-Air UWB Communication. *Dissanayake, T.*, +, *LAWP 2009 153-156*

Biomedical communication

Design and Evaluation of a Compact Antenna for Implant-to-Air UWB Communication. *Dissanayake, T.*, +, *LAWP 2009 153-156*

Biomedical MRI

UHF Propagation in the Magnetic Resonance Bore. *Black, J. A.*, +, *LAWP 2009 869-871*

Biomedical telemetry

UHF Propagation in the Magnetic Resonance Bore. *Black, J. A.*, +, *LAWP 2009 869-871*

Biomembranes

A Millimeter-Wave Microstrip Antenna Array on Ultra-Flexible Micromachined Polydimethylsiloxane (PDMS) Polymer. *Hage-Ali, S.*, +, *LAWP 2009 1306-1309*

Block codes

Link Performance Improvement Using Reconfigurable Multiantenna Systems. *Sukumar, C. R.*, +, *LAWP 2009 873-876*

Bluetooth

Integrated Bluetooth and UWB Antenna. *Yildirim, B. S.*, +, *LAWP 2009 149-152*

Body area networks

A Truncated Conical Dielectric Resonator Antenna for Body-Area Network Applications. *Almpanis, G.*, +, *LAWP 2009 279-282*
Stability of Narrowband Dynamic Body Area Channel. *Zhang, J.*, +, *LAWP 2009 53-56*
UHF Propagation in the Magnetic Resonance Bore. *Black, J. A.*, +, *LAWP 2009 869-871*

Boundary integral equations

Improved-Accuracy Source Reconstruction on Arbitrary 3-D Surfaces. *Araque Quijano, J. L.*, +, *LAWP 2009 1046-1049*

Boundary-value problems

Efficient Generation of Method of Moments Matrices Using Equivalent Dipole-Moment Method. *Yuan, J.*, +, *LAWP 2009 716-719*

Bow-tie antennas

Design and Optimization of Compact Balanced Antipodal Staircase Bow-Tie Antenna. *Dadgarpour, A.*, +, *LAWP 2009 1135-1138*
Planar, Compact Dual-Band Antenna for Wireless LAN Applications. *Midrio, M.*, +, *LAWP 2009 1234-1237*

Breast

Microwave Radar-Based Breast Cancer Detection: Imaging in Inhomogeneous Breast Phantoms. *Klemm, M.*, +, *LAWP 2009 1349-1352*
Spectral Difference Between Microwave Radar and Microwave-Induced Thermoacoustic Signals. *Zhu, K. G.*, +, *LAWP 2009 1259-1262*

Broadband antennas

A Broadband Dual-Mode Monopole Antenna Using NRI-TL Metamaterial Loading. *Antoniades, M. A.*, +, *LAWP 2009 258-261*
A Broadband Microstrip Antenna With Improved Gain for Noncontact Vital Sign Radar Detection. *Park, Z.*, +, *LAWP 2009 939-942*
A Broadband Planar Monopulse Antenna Array of C-Band. *Yu, Z.-W.*, +, *LAWP 2009 1325-1328*
A Compact Transmission-Line Metamaterial Antenna With Extended Bandwidth. *Zhu, J.*, +, *LAWP 2009 295-298*
A Dual-Mode Quadrature-Fed Wideband Circularly Polarized Dielectric Resonator Antenna. *Li, B.*, +, *LAWP 2009 1036-1038*
A Multifractal Cantor Antenna for Multiband Wireless Applications. *Manimegalai, B.*, +, *LAWP 2009 359-362*
A New Reconfigurable Antenna Design for Cognitive Radio. *Tawk, Y.*, +, *LAWP 2009 1378-1381*
A Novel Broadband Plate-Loaded Planar Monopole Antenna. *Mazinani, S. M.*, +, *LAWP 2009 1123-1126*
A Novel Planar Conformal Antenna Designed With Splines. *Koulouridis, S.*, +, *LAWP 2009 34-36*
A Small Dual-Band Inverted-F Antenna With a Twisted Line. *Kim, J. H.*, +, *LAWP 2009 307-310*
A Wideband, Low-Profile, Conical-Beam Antenna With Horizontal Polarization for Indoor Wireless Communications. *Wu, B. Q.*, +, *LAWP 2009 634-636*
Broadband Circularly Polarized Slot Antenna Array Fed by Asymmetric CPW for L-Band Applications. *Fu, S.*, +, *LAWP 2009 1014-1016*
Broadband Linear Array With Photoconductive Weights. *Haupt, R. L.*, +, *LAWP 2009 1288-1290*
Broadband Slot-Type Bruce Array Fed by a Microstrip-to-Slotline T-Junction. *Chen, S.-Y.*, +, *LAWP 2009 116-119*
Circuit Modeling of a Small Broadband Conical Antenna. *Palud, S.*, +, *LAWP 2009 96-99*
Compact Broadband Slotted Rectangular Microstrip Antenna. *Deshmukh, A. A.*, +, *LAWP 2009 1410-1413*
Compact Three-Port Integrated-Antenna-Filter Modules. *Lim, E. H.*, +, *LAWP 2009 486-489*

Conformal Strip-Fed Shaped Cylindrical Dielectric Resonator: Improved Design of a Wideband Wireless Antenna. *Chu, L. C. Y.*, +, *LAWP 2009 482-485*

Design of a Tapered Balun for Broadband Arrays With Closely Spaced Elements. *Xia, T.*, +, *LAWP 2009 1291-1294*

Dual-Band Probe-Fed Stacked Patch Antenna for GNSS Applications. *Wang, Z.*, +, *LAWP 2009 100-103*

Dual-Polarized Tapered Slot-Line Antenna Array Fed by Rotman Lens Air-Filled Ridge-Port Design. *Remez, J.*, +, *LAWP 2009 847-851*

Investigation of a Novel Wideband Feeding Technique for Dielectric Ring Resonator Antennas. *Chang, W.*, +, *LAWP 2009 348-351*

Performance Improvement of a Wideband MIMO System by Using Two-Port RLWA. *Piazza, D.*, +, *LAWP 2009 830-834*

Planar Hexa-Band Inverted-F Antenna for Portable Device Applications. *Chiu, C.-W.*, +, *LAWP 2009 1099-1102*

Printed Broadband Monopole Antenna for WLAN/WiMAX Applications. *Chen, I.-F.*, +, *LAWP 2009 472-474*

Wideband Folded Feed L-Slot Folded Patch Antenna. *Lau, K. L.*, +, *LAWP 2009 340-343*

Wideband Planar Patch Antenna Array on Cylindrical Surface. *Abbaspour, M.*, +, *LAWP 2009 394-397*

Wideband Printed Microstrip Antenna for Wireless Communications. *Sarin, V. P.*, +, *LAWP 2009 779-781*

Wideband Rectangular Dielectric Resonator Antenna With a Concave Ground Plane. *Liang, X.-L.*, +, *LAWP 2009 367-370*

Wideband Single-Feed Circularly Polarized Patch Antenna With Conical Radiation Pattern. *Guo, Y.-X.*, +, *LAWP 2009 924-926*

Broadband communication

Broadband Linear Array With Photoconductive Weights. *Haupt, R. L.*, +, *LAWP 2009 1288-1290*

Compact Broadband Slotted Rectangular Microstrip Antenna. *Deshmukh, A. A.*, +, *LAWP 2009 1410-1413*

Design of a Tapered Balun for Broadband Arrays With Closely Spaced Elements. *Xia, T.*, +, *LAWP 2009 1291-1294*

Broadband networks

A Compact Multiband Antenna Based on DNG ZOR for Wireless Mobile System. *Ji, J. K.*, +, *LAWP 2009 920-923*

Broadcast antennas

A DVBH/GSM/UMTS Planar Antenna for Multimode Wireless Devices. *Lizzi, L.*, +, *LAWP 2009 568-571*

C

Capacitance

On the Bandwidth of High-Impedance Frequency Selective Surfaces. *Costa, F.*, +, *LAWP 2009 1341-1344*

Carbon nanotubes

A Novel Conformal RFID-Enabled Module Utilizing Inkjet-Printed Antennas and Carbon Nanotubes for Gas-Detection Applications. *Yang, L.*, +, *LAWP 2009 653-656*

Cavity resonators

Effects of Artificial Magnetic Conductors in the Design of Low-Profile High-Gain Planar Antennas With High-Permittivity Dielectric Superstrate. *Forozesh, A.*, +, *LAWP 2009 10-13*

Evaluation of Green's Functions of Rectangular Cavities Around Resonant Frequencies in the Method of Moments. *Lu, M.*, +, *LAWP 2009 204-208*

Left-Handed/Right-Handed Transmission Line Subwavelength Cavity Resonators. *Liao, S.*, +, *LAWP 2009 80-83*

Cellular effects of radiation

Microdosimetry in the Microwave Range: A Quantitative Assessment at Single Cell Level. *Liberti, M.*, +, *LAWP 2009 865-868*

Cellular radio

A Compact Multiband Antenna Based on DNG ZOR for Wireless Mobile System. *Ji, J. K.*, +, *LAWP 2009 920-923*

A DVBH/GSM/UMTS Planar Antenna for Multimode Wireless Devices. *Lizzi, L.*, +, *LAWP 2009 568-571*

A Hybrid Prefractal Three-Band Antenna for Multistandard Mobile Wireless Applications. *Azaro, R.*, +, *LAWP 2009 905-908*

A New Printed Antenna for Multiband Wireless Applications. *Lee, Y.-C.*, +, *LAWP 2009 402-405*

A Quadband Antenna With Reconfigurable Feedings. *Li, Y.*, +, *LAWP 2009 1069-1071*

Planar Hexa-Band Inverted-F Antenna for Portable Device Applications. *Chiu, C.-W.*, +, *LAWP 2009 1099-1102*

Tapered Meander Line Antenna for Maximum Efficiency and Minimal Environmental Impact. *Galehdar, A.*, +, *LAWP 2009 244-247*

Temporal Dispersion Characterization of Over-Building Propagation Applied to Iso-Frequency Repeaters. *Rubio, L.*, +, *LAWP 2009 509-512*

Ultrawideband Dielectric Resonator Antenna for DVB-H and GSM Applications. *Huitema, L.*, +, *LAWP 2009 1021-1027*

Ceramics

Integration of Single-Mode Photonic Crystal Clad Waveguides With Monolithically Constructed Ceramic Subsystems. *Brakora, K. F.*, +, *LAWP 2009 433-436*

Channel capacity

Effect of Pedestrian Movement on MIMO-OFDM Channel Capacity in an Indoor Environment. *Das Gupta, J. D.*, +, *LAWP 2009 682-685*

Influence of Antenna Characteristics on MIMO Systems With Compact Monopole Arrays. *Hui, H. T.*, +, *LAWP 2009 133-136*

MIMO Channel Capacity With Polarization Diversity in Arched Tunnels. *Molina-Garcia-Pardo, J.-M.*, +, *LAWP 2009 1186-1189*

Circular waveguides

Broadband Circularly Polarized Slot Antenna Array Fed by Asymmetric CPW for L-Band Applications. *Fu, S.*, +, *LAWP 2009 1014-1016*

EBG-Based Circular Waveguide Rod Arrays With Improved Scanning Characteristics. *Fu, Y.*, +, *LAWP 2009 705-707*

Coal

An Experiment Study of the Propagation of Radio Waves in a Scaled Model of Long-Wall Coal Mining Tunnels. *Han, G.*, +, *LAWP 2009 502-504*

Coaxial cables

Improved Formulation for Admittance of Thin and Short Monopole Driving From Coaxial Line Into Dissipative Media. *You, K. Y.*, +, *LAWP 2009 1246-1249*

Coaxial waveguides

Left-Handed/Right-Handed Transmission Line Subwavelength Cavity Resonators. *Liao, S.*, +, *LAWP 2009 80-83*

Code division multiple access

A Compact Multiband Antenna Based on DNG ZOR for Wireless Mobile System. *Ji, J. K.*, +, *LAWP 2009 920-923*

Field Probes Performance for the Measurement of Spread-Spectrum Radio Signals. *Trincherio, D.*, +, *LAWP 2009 494-497*

Novel Broadband Planar Reflectarray With Parasitic Dipoles for Wireless Communication Applications. *Li, L.*, +, *LAWP 2009 881-885*

Cognitive radio

A New Reconfigurable Antenna Design for Cognitive Radio. *Tawk, Y.*, +, *LAWP 2009 1378-1381*

Combinatorial mathematics

A Combinatorial Method for Antenna Array Design in Minimum Redundancy MIMO Radars. *Dong, J.*, +, *LAWP 2009 1150-1153*

Computational complexity

Extended Aperture 2-D Direction Finding With a Two-Parallel-Shape-Array Using Propagator Method. *He, J.*, +, *LAWP 2009 323-327*

Generalization of the Barnes Hut Algorithm for the Helmholtz Equation in Three Dimensions. *Aronsson, J.*, +, *LAWP 2009 425-428*

Computational electromagnetics

An Efficient 2D ADI-FDTD Modeling of High-Order, Frequency-Dependent Media. *Pereda, J. A.*, +, *LAWP 2009 724-727*

Complex Envelope Four-Stage ADI-FDTD Algorithm for Narrowband Electromagnetic Applications. *Ramadan, O.*, +, *LAWP 2009 1084-1086*

Efficient Calculation of the Green's Function for 2-D Periodic Line Sources Using Ewald Method. *Park, M.-J.*, +, *LAWP 2009 565-567*

Efficient Generation of Method of Moments Matrices Using Equivalent Dipole-Moment Method. *Yuan, J.*, +, *LAWP 2009 716-719*

Fast Analysis of Terahertz Integrated Lens Antennas Employing the Spectral Domain Ray Tracing Method. *Hailu, D. M.*, +, *LAWP 2009 37-39*

Generalization of the Barnes Hut Algorithm for the Helmholtz Equation in Three Dimensions. *Aronsson, J.*, +, *LAWP 2009 425-428*

Conducting bodies

Efficiency-Enhanced and Size-Reduced Coupled Twin Slots Capacitively Fed by Conductor-Backed Coplanar Waveguide. *Lee, C.-H.*, +, *LAWP 2009 1033-1035*

Conductors

Broadband Linear Array With Photoconductive Weights. *Haupt, R. L.*, +, *LAWP 2009 1288-1290*

- Design of Planar Artificial Magnetic Conductor Ground Plane Using Frequency-Selective Surfaces for Frequencies Below 1 GHz. *de Cos, M. E., +, LAWP 2009 951-954*
- Effects of Artificial Magnetic Conductors in the Design of Low-Profile High-Gain Planar Antennas With High-Permittivity Dielectric Superstrate. *Foroozesh, A., +, LAWP 2009 10-13*
- Experimental Evaluations of Printed Circuit Board and On-Chip Inductors Backed by AMC Surfaces. *Kostka, D., +, LAWP 2009 720-723*
- Conformal antennas**
- A Novel Conformal RFID-Enabled Module Utilizing Inkjet-Printed Antennas and Carbon Nanotubes for Gas-Detection Applications. *Yang, L., +, LAWP 2009 653-656*
- A Novel Planar Conformal Antenna Designed With Splines. *Koulouridis, S., +, LAWP 2009 34-36*
- A Spherical Inverted-F Antenna (SIFA). *Huff, G. H., +, LAWP 2009 649-652*
- Conformal Asymmetric Meandered Flare (AMF) Antenna for Body-Worn Applications. *Psychoudakis, D., +, LAWP 2009 931-934*
- Conformal Strip-Fed Shaped Cylindrical Dielectric Resonator: Improved Design of a Wideband Wireless Antenna. *Chu, L. C. Y., +, LAWP 2009 482-485*
- Conical antennas**
- A Truncated Conical Dielectric Resonator Antenna for Body-Area Network Applications. *Almpanis, G., +, LAWP 2009 279-282*
- A Wideband, Low-Profile, Conical-Beam Antenna With Horizontal Polarization for Indoor Wireless Communications. *Wu, B. Q., +, LAWP 2009 634-636*
- Circuit Modeling of a Small Broadband Conical Antenna. *Palud, S., +, LAWP 2009 96-99*
- Low-Loss Wideband Multimodal Interferometric Antenna for DOA in Azimuth and Elevation. *Remez, J., +, LAWP 2009 898-902*
- Conjugate gradient methods**
- An Efficient Technique for the Analysis of Large Multilayered Printed Arrays. *De Vita, P., +, LAWP 2009 104-107*
- Connectors**
- Design of a Tapered Balun for Broadband Arrays With Closely Spaced Elements. *Xia, T., +, LAWP 2009 1291-1294*
- Convergence**
- Strong Singularity Reduction for Curved Patches for the Integral Equations of Electromagnetics. *Weile, D. S., +, LAWP 2009 1370-1373*
- Coplanar transmission lines**
- Duality and Superposition in Split-Ring-Resonator-Loaded Planar Transmission Lines. *Carbonell, J., +, LAWP 2009 886-889*
- Coplanar waveguide components**
- Printed Broadband Monopole Antenna for WLAN/WiMAX Applications. *Chen, I.-F., +, LAWP 2009 472-474*
- Coplanar waveguides**
- A Compact Meander-Line UHF RFID Tag Antenna Loaded With Elements Found in Right/Left-Handed Coplanar Waveguide Structures. *Braaten, B. D., +, LAWP 2009 1158-1161*
- Broadband Circularly Polarized Slot Antenna Array Fed by Asymmetric CPW for L-Band Applications. *Fu, S., +, LAWP 2009 1014-1016*
- Compact Dual-Band Hybrid Dielectric Resonator Antenna With Radiating Slot. *Lin, Y.-F., +, LAWP 2009 6-9*
- Coplanar Waveguide-Fed Rectangular Antenna With an Inverted-L Stub for Ultrawideband Communications. *Lin, W.-P., +, LAWP 2009 228-231*
- CPW-Fed Planar Printed Monopole Antenna With Impedance Bandwidth Enhanced. *Deng, C., +, LAWP 2009 1394-1397*
- Duality and Superposition in Split-Ring-Resonator-Loaded Planar Transmission Lines. *Carbonell, J., +, LAWP 2009 886-889*
- Efficiency-Enhanced and Size-Reduced Coupled Twin Slots Capacitively Fed by Conductor-Backed Coplanar Waveguide. *Lee, C.-H., +, LAWP 2009 1033-1035*
- Correlation**
- Blind Adaptive Beamforming for Cyclostationary Signals: A Subspace Projection Approach. *Lee, J.-H., +, LAWP 2009 1406-1409*
- A New Spatial Correlation Formulation of Arbitrary AoA Scenarios. *Hsieh, P.-H., +, LAWP 2009 398-401*
- Analysis of Correlated Shadow Fading in Dual-Link Indoor Radio Wave Propagation. *Poutanen, J., +, LAWP 2009 1190-1193*
- Derivation and Analysis of Spatial Correlation for 2×2 MIMO System. *ManhTuan, D., +, LAWP 2009 409-413*
- Quad-Band MIMO Antenna Array for Portable Wireless Communications Terminals. *Bhatti, R. A., +, LAWP 2009 129-132*
- Through-Wall Imaging of Moving Targets Using UWB Random Noise Radar. *Wang, H., +, LAWP 2009 802-805*
- Coupled mode analysis**
- Mode-Based Analysis of Resonant Characteristics for Near-Field Coupled Small Antennas. *Tak, Y., +, LAWP 2009 1238-1241*
- Couplers**
- Compact Antenna Array With Port Decoupling for LTE-Standardized Mobile Phones. *Bhatti, R. A., +, LAWP 2009 1430-1433*
- Couplings**
- A Wideband Patch Antenna With Dual-Cylindrical Probe Feed. *Zhou, H., +, LAWP 2009 1321-1324*
- Coupling Between Waveguide-Fed Planar Slot Arrays. *Rengarajan, S. R., +, LAWP 2009 429-432*
- Cryptography**
- Retrodirective Antenna Spatial Data Protection. *Fusco, V. F., +, LAWP 2009 490-493*
- Current measurement**
- Broadband Linear Array With Photoconductive Weights. *Haupt, R. L., +, LAWP 2009 1288-1290*
- Cutoff frequency**
- A Ku-K Dual-Band Compact Circular Corrugated Horn for Satellite Communications. *Addamo, G., +, LAWP 2009 1418-1421*

D

Delay

- Comment on "Short-Delay Multipath Mitigation Technique Based on Virtual Multipath". *Zhang, S., +, LAWP 2009 1434-1435*
- Reply to "Comment on 'Short-Delay Multipath Mitigation Technique Based on Virtual Multipath'". *Zhang, Z., +, LAWP 2009 1435*
- Channel Sounding of Loaded Reverberation Chamber for Over-the-Air Testing of Wireless Devices Coherence Bandwidth Versus Average Mode Bandwidth and Delay Spread. *Chen, X., +, LAWP 2009 678-681*
- Temporal Dispersion Characterization of Over-Building Propagation Applied to Iso-Frequency Repeaters. *Rubio, L., +, LAWP 2009 509-512*

Demultiplexing equipment

- Millimeter-Wave Left-Handed Extraordinary Transmission Metamaterial Demultiplexer. *Navarro-Cia, M., +, LAWP 2009 212-215*

Dielectric bodies

- A Design Strategy for Large Dielectric Radome Compensated Joints. *Virone, G., +, LAWP 2009 546-549*
- A Monopolar Quad-Band Antenna Based on a Hilbert Self-Affine Prefractal Geometry. *Azaro, R., +, LAWP 2009 177-180*
- Multilayer Dielectric Resonator Antenna Operating at Degenerate Band Edge Modes. *Yarga, S., +, LAWP 2009 287-290*

Dielectric devices

- Subwavelength Target Detection Using Ultrawideband Time-Reversal Techniques With a Multilayered Dielectric Slab. *Liao, T.-H., +, LAWP 2009 835-838*

Dielectric losses

- Eigen-Analysis of Lossy Compact Multielement Antenna Systems. *Papamichael, V. C., +, LAWP 2009 1334-1336*

Dielectric materials

- Design of Dielectric-Covered Planar Arrays of Longitudinal Slots. *Casula, G. A., +, LAWP 2009 752-755*
- Input Impedance and Resonant Frequency of a Printed Dipole With Arbitrary Length Embedded in Stratified Uniaxial Anisotropic Dielectrics. *Braaten, B. D., +, LAWP 2009 806-810*
- Proximity Effects of Plastic Laptop Covers on Radiation Characteristics of 60-GHz Antennas. *Amadjikpe, A. L., +, LAWP 2009 763-766*

Dielectric resonance

- Input Impedance and Resonant Frequency of a Printed Dipole With Arbitrary Length Embedded in Stratified Uniaxial Anisotropic Dielectrics. *Braaten, B. D., +, LAWP 2009 806-810*
- New Pawn-Shaped Dielectric Ring Resonator Loaded Hybrid Monopole Antenna for Improved Ultrawide Bandwidth. *Guha, D., +, LAWP 2009 1178-1181*

Dielectric resonator antennas

- A Compact Dual-Band Dielectric Resonator Antenna Using a Parasitic Slot. *Chen, H.-M., +, LAWP 2009 173-176*
- A Dual-Mode Quadrature-Fed Wideband Circularly Polarized Dielectric Resonator Antenna. *Li, B., +, LAWP 2009 1036-1038*

- A Truncated Conical Dielectric Resonator Antenna for Body-Area Network Applications. *Almpanis, G.*, +, *LAWP 2009 279-282*
- Analysis of Dielectric Resonator Antenna Array by Using Unconditionally Stable Pseudospectral Time-Domain Method. *Zheng, H.-X.*, +, *LAWP 2009 344-347*
- Compact Dual-Band Hybrid Dielectric Resonator Antenna With Radiating Slot. *Lin, Y.-F.*, +, *LAWP 2009 6-9*
- Conformal Strip-Fed Shaped Cylindrical Dielectric Resonator: Improved Design of a Wideband Wireless Antenna. *Chu, L. C. Y.*, +, *LAWP 2009 482-485*
- Drift Denoising of Experimental TE Measurements for Imaging 2D PEC Cylinders. *Hassan, A. M.*, +, *LAWP 2009 1218-1222*
- Inclusion of the Feeding Network Effects in the Generalized-Scattering-Matrix Formulation of a Finite Array. *Rubio, J.*, +, *LAWP 2009 819-822*
- Investigation of a Novel Wideband Feeding Technique for Dielectric Ring Resonator Antennas. *Chang, W.*, +, *LAWP 2009 348-351*
- Multilayer Dielectric Resonator Antenna Operating at Degenerate Band Edge Modes. *Yarga, S.*, +, *LAWP 2009 287-290*
- Mutual Coupling Compensation in Arrays Using a Spherical Wave Expansion of the Radiated Field. *Corcoles, J.*, +, *LAWP 2009 108-111*
- New Pawn-Shaped Dielectric Ring Resonator Loaded Hybrid Monopole Antenna for Improved Ultrawide Bandwidth. *Guha, D.*, +, *LAWP 2009 1178-1181*
- Perturbation Technique to Analyze Mutual Coupling in Reflectarrays. *Jamaluddin, M. H.*, +, *LAWP 2009 697-700*
- Resonator-Loaded Dual-Band Monopole for Universal WLAN. *Gemio, J.*, +, *LAWP 2009 736-739*
- Wideband Rectangular Dielectric Resonator Antenna With a Concave Ground Plane. *Liang, X.-L.*, +, *LAWP 2009 367-370*
- Dielectric resonators**
- Ultrawideband Dielectric Resonator Antenna for DVB-H and GSM Applications. *Huitema, L.*, +, *LAWP 2009 1021-1027*
- Dielectric waveguides**
- High-Resolution Probes for Near-Field Measurements of Reflectarray Antennas. *Dieter, S.*, +, *LAWP 2009 157-160*
- Integration of Single-Mode Photonic Crystal Clad Waveguides With Monolithically Constructed Ceramic Subsystems. *Brakora, K. F.*, +, *LAWP 2009 433-436*
- Millimeter-Wave Waveguide Slot-Array Antenna Covered by a Dielectric Slab and Arrayed Patches. *Hwang, J.-H.*, +, *LAWP 2009 1050-1053*
- Waveguides Composed of Metafilms/Metasurfaces: The Two-Dimensional Equivalent of Metamaterials. *Holloway, C. L.*, +, *LAWP 2009 525-529*
- Dielectric-loaded antennas**
- Study of Folded Reflector Multibeam Antenna With Dielectric Rods as Primary Source. *Nguyen, T. P.*, +, *LAWP 2009 786-789*
- Dielectric-loaded waveguides**
- Study of Folded Reflector Multibeam Antenna With Dielectric Rods as Primary Source. *Nguyen, T. P.*, +, *LAWP 2009 786-789*
- Dielectrics**
- Design and Analysis of Three-Dimensionalized ELC Metamaterial Unit Cell. *Sajuyigbe, S.*, +, *LAWP 2009 1268-1271*
- Hard Surfaces to Reduce Blockage in Thick Cylinders. *Rajo-Iglesias, E.*, +, *LAWP 2009 1402-1405*
- Digital video broadcasting**
- A DVBH/GSM/UMTS Planar Antenna for Multimode Wireless Devices. *Lizzi, L.*, +, *LAWP 2009 568-571*
- DVB-H Antenna Design Using Folder-Type Chassis and Coupling Element on a Ferrite. *Rhyu, H.*, +, *LAWP 2009 453-456*
- Ultrawideband Dielectric Resonator Antenna for DVB-H and GSM Applications. *Huitema, L.*, +, *LAWP 2009 1021-1027*
- Dipole antenna arrays**
- A Lumped-Circuit Model for a Triband Trapped Dipole Array Part 1: Model Description. *Coburn, W. O.*, +, *LAWP 2009 14-18*
- Derivation and Analysis of Spatial Correlation for 2×2 MIMO System. *ManhTuan, D.*, +, *LAWP 2009 409-413*
- Design and Realization of a Linearly Polarized Eleven Feed for 1 10 GHz. *Yang, J.*, +, *LAWP 2009 64-68*
- Novel Broadband Planar Reflectarray With Parasitic Dipoles for Wireless Communication Applications. *Li, L.*, +, *LAWP 2009 881-885*
- Performance Improvement of a Wideband MIMO System by Using Two-Port RLWA. *Piazza, D.*, +, *LAWP 2009 830-834*
- Dipole antennas**
- A Broadband Dual-Polarized Magneto-Electric Dipole Antenna With Simple Feeds. *Wu, B. Q.*, +, *LAWP 2009 60-63*
- A Low Q Electrically Small Magnetic (TE Mode) Dipole. *Best, S. R.*, +, *LAWP 2009 572-575*
- A Magneto-Electric Dipole With a Modified Ground Plane. *Wu, B. Q.*, +, *LAWP 2009 627-629*
- A Novel Planar Conformal Antenna Designed With Splines. *Koulouridis, S.*, +, *LAWP 2009 34-36*
- Compact Dual-Band Hybrid Dielectric Resonator Antenna With Radiating Slot. *Lin, Y.-F.*, +, *LAWP 2009 6-9*
- Compact Reconfigurable Antenna Array for Adaptive MIMO Systems. *Li, Z.*, +, *LAWP 2009 1317-1320*
- Conformal Asymmetric Meandered Flare (AMF) Antenna for Body-Worn Applications. *Psychoudakis, D.*, +, *LAWP 2009 931-934*
- Cylindrical Cavity-Backed Antenna. *Paek, J. K.*, +, *LAWP 2009 852-855*
- Design of a Tapered Balun for Broadband Arrays With Closely Spaced Elements. *Xia, T.*, +, *LAWP 2009 1291-1294*
- Dual-Frequency Printed Dipole Loaded With Split Ring Resonators. *Herrera-Martinez, F. J.*, +, *LAWP 2009 137-140*
- Input Impedance and Resonant Frequency of a Printed Dipole With Arbitrary Length Embedded in Stratified Uniaxial Anisotropic Dielectrics. *Braaten, B. D.*, +, *LAWP 2009 806-810*
- Low-Loss Wideband Multimodal Interferometric Antenna for DOA in Azimuth and Elevation. *Remez, J.*, +, *LAWP 2009 898-902*
- Matching Techniques for Miniaturized UHF RFID Loop Antennas. *Im, Y.-T.*, +, *LAWP 2009 266-270*
- Direction-of-arrival estimation**
- A New CLEAN Algorithm for Angle of Arrival Denoising. *Akhdar, O.*, +, *LAWP 2009 478-481*
- Extended Aperture 2-D Direction Finding With a Two-Parallel-Shape-Array Using Propagator Method. *He, J.*, +, *LAWP 2009 323-327*
- Low-Loss Wideband Multimodal Interferometric Antenna for DOA in Azimuth and Elevation. *Remez, J.*, +, *LAWP 2009 898-902*
- Directive antennas**
- Directive Coupled Sectorial Loops Antenna for Ultrawideband Applications. *Elsherbini, A.*, +, *LAWP 2009 576-579*
- Low-Loss Wideband Multimodal Interferometric Antenna for DOA in Azimuth and Elevation. *Remez, J.*, +, *LAWP 2009 898-902*
- Millimeter-Wave Waveguide Slot-Array Antenna Covered by a Dielectric Slab and Arrayed Patches. *Hwang, J.-H.*, +, *LAWP 2009 1050-1053*
- Multifed Sectorial EBG Antenna for WiMAX Applications. *Serhal, D.*, +, *LAWP 2009 620-623*
- Printed Broadband Monopole Antenna for WLAN/WiMAX Applications. *Chen, I.-F.*, +, *LAWP 2009 472-474*
- Retrodirective Antenna Spatial Data Protection. *Fusco, V. F.*, +, *LAWP 2009 490-493*
- Dispersion (wave)**
- On the Nature of Numerical Plane Waves in FDTD. *Tan, T.*, +, *LAWP 2009 505-508*
- Study of Low-Dispersion ADI-FDTD Method With Isotropic Finite Difference. *Zhao, A.-X.*, +, *LAWP 2009 275-278*
- Diversity reception**
- A Low-Profile Switchable Quadripolarization Diversity Aperture-Coupled Patch Antenna. *Wang, S.-Y.*, +, *LAWP 2009 522-524*
- Design and Implementation of a Compact 6-Port Antenna. *Chiu, C.-Y.*, +, *LAWP 2009 767-770*
- Diversity Gain and MIMO Capacity for Nonisotropic Environments Using a Reverberation Chamber. *Valenzuela-Valdes, J. F.*, +, *LAWP 2009 112-115*
- Employing EBG Structures in Multiantenna Systems for Improving Isolation and Diversity Gain. *Payandehjoo, K.*, +, *LAWP 2009 1162-1165*
- MIMO Channel Capacity With Polarization Diversity in Arched Tunnels. *Molina-Garcia-Pardo, J.-M.*, +, *LAWP 2009 1186-1189*
- Pattern and Polarization Diversity Antenna With High Isolation for Portable Wireless Devices. *Wang, X.*, +, *LAWP 2009 209-211*
- Perturbed Square-Ring Slot Antenna With Reconfigurable Polarization. *Dorsey, W. M.*, +, *LAWP 2009 603-606*
- Doppler measurement**
- Improved Near-Field Radar Cross-Section Measurement Technique. *Nicholson, K. J.*, +, *LAWP 2009 1103-1106*
- Dosimetry**
- Microdosimetry in the Microwave Range: A Quantitative Assessment at Single Cell Level. *Liberti, M.*, +, *LAWP 2009 865-868*
- Dual band**
- A Coaxial Corrugated Dual-Band Horn Feed. *Zhang, Q.*, +, *LAWP 2009 1357-1359*

A Crooked U-Slot Dual-Band Antenna With Radial Stub Feeding. *Bae, H. R.*, +, *LAWP 2009 1345-1348*

Dynamic range

Optimal Synthesis of Directivity Constrained Pencil Beams by Means of Circularly Symmetric Aperture Fields. *Bucci, O. M.*, +, *LAWP 2009 1386-1389*

E

Echo suppression

Echo-Cancellation Technique With Recursive Data in Nonanechoic Test Sites. *Moon, J.-I.*, +, *LAWP 2009 558-560*

Temporal Dispersion Characterization of Over-Building Propagation Applied to Iso-Frequency Repeaters. *Rubio, L.*, +, *LAWP 2009 509-512*

Eddy currents

Experimental Evaluations of Printed Circuit Board and On-Chip Inductors Backed by AMC Surfaces. *Kostka, D.*, +, *LAWP 2009 720-723*

Eigenvalues and eigenfunctions

Cylindrical Cavity-Backed Antenna. *Paek, J. K.*, +, *LAWP 2009 852-855*
Design of Decoupling Networks for Circulant Symmetric Antenna Arrays. *Coetzee, J. C.*, +, *LAWP 2009 291-294*

Electric connectors

A Simple and Effective Procedure for Connector Deembedding in Antenna Arrays. *Pinchera, D.*, +, *LAWP 2009 534-537*

Electric field integral equations

Excitation of a Periodic Microstrip Line by an Aperiodic Delta-Gap Source. *Rodriguez-Berral, R.*, +, *LAWP 2009 641-644*

Electric field measurement

Far-Field Radiation Patterns of Terahertz Wire Waveguides. *Liang, H.*, +, *LAWP 2009 1272-1274*

Field Probes Performance for the Measurement of Spread-Spectrum Radio Signals. *Trincherro, D.*, +, *LAWP 2009 494-497*

Electric impedance

Input Impedance of Fabry-Perot, EBG, and Leaky-Wave Antennas Excited by a Line Source. *Vu, T.-H.*, +, *LAWP 2009 248-252*
Mode-Based Analysis of Resonant Characteristics for Near-Field Coupled Small Antennas. *Tak, Y.*, +, *LAWP 2009 1238-1241*

Electric impedance measurement

Impedance Measurement of Properly Excited Small Balanced Antennas. *Kaldjob, E. B.*, +, *LAWP 2009 193-195*

Electric moments

Efficient Generation of Method of Moments Matrices Using Equivalent Dipole-Moment Method. *Yuan, J.*, +, *LAWP 2009 716-719*

Electric sensing devices

Novel Antenna Concept for Compact Millimeter-Wave Automotive Radar Sensors. *Beer, S.*, +, *LAWP 2009 771-774*

Electrical engineering computing

A Novel Microstrip Rectangular-Patch/Ring-Combination Reflectarray Element and Its Application. *Li, Q.-Y.*, +, *LAWP 2009 1119-1122*
Use of Geospatial Resources for Radio Propagation Prediction in Urban Areas. *Yun, Z.*, +, *LAWP 2009 587-591*

Electromagnetic compatibility

A Thin X-Band Microwave Absorber Using a Center Shorted Spiral Medium. *Liu, Y.*, +, *LAWP 2009 271-274*

Experimental Setup for the Characterization of Field Probes Performance in Presence of Digitally Modulated Radio Signals. *Trincherro, D.*, +, *LAWP 2009 224-227*

Near-Field Control of Handset Antennas Based on Inverted-Top Wavetraps: Focus on Hearing-Aid Compatibility. *Holopainen, J.*, +, *LAWP 2009 592-595*

Performances of UWB Wheeler Cap and Reverberation Chamber to Carry Out Efficiency Measurements of Narrowband Antennas. *Le Fur, G.*, +, *LAWP 2009 332-335*

Electromagnetic coupling

A Tripolarization Antenna Fed by Proximity Coupling and Probe. *Zhong, H.*, +, *LAWP 2009 465-467*

Design of Decoupling Networks for Circulant Symmetric Antenna Arrays. *Coetzee, J. C.*, +, *LAWP 2009 291-294*

DVB-H Antenna Design Using Folder-Type Chassis and Coupling Element on a Ferrite. *Rhyu, H.*, +, *LAWP 2009 453-456*

Efficiency-Enhanced and Size-Reduced Coupled Twin Slots Capacitively Fed by Conductor-Backed Coplanar Waveguide. *Lee, C.-H.*, +, *LAWP 2009 1033-1035*

Inclusion of the Feeding Network Effects in the Generalized-Scattering-Matrix Formulation of a Finite Array. *Rubio, J.*, +, *LAWP 2009 819-822*

Mode-Based Analysis of Resonant Characteristics for Near-Field Coupled Small Antennas. *Tak, Y.*, +, *LAWP 2009 1238-1241*

Multiband Dual Spiral Stripline-Loaded Monopole Antenna. *Nguyen, T. K.*, +, *LAWP 2009 57-59*

Mutual Coupling Compensation in Arrays Using a Spherical Wave Expansion of the Radiated Field. *Corcoles, J.*, +, *LAWP 2009 108-111*

Electromagnetic fields

Efficient Near-Field Interpolation of Mixed-Potential Green's Functions in Layered Media. *Valerio, G.*, +, *LAWP 2009 674-677*

A Fraunhofer-Based Approach for the Assessment of the Field Radiated in the Fresnel Region of an Antenna. *Trincherro, D.*, +, *LAWP 2009 30-33*

A Further Study on the Use of the Alternating-Direction Implicit Scheme for the Finite-Element Time-Domain Method. *Du, L.*, +, *LAWP 2009 775-778*

Internal Resistance of Voltage Source by Use of the Finite-Difference Time-Domain Technique. *Lee, A.-K.*, +, *LAWP 2009 1194-1197*

Microdosimetry in the Microwave Range: A Quantitative Assessment at Single Cell Level. *Liberti, M.*, +, *LAWP 2009 865-868*

Electromagnetic interference

Proximity Effects of Plastic Laptop Covers on Radiation Characteristics of 60-GHz Antennas. *Amadjikpe, A. L.*, +, *LAWP 2009 763-766*

Electromagnetic wave absorption

A Thin X-Band Microwave Absorber Using a Center Shorted Spiral Medium. *Liu, Y.*, +, *LAWP 2009 271-274*

Electromagnetic wave diffraction

High-Frequency Asymptotics for Diffraction by a Strongly Elongated Body. *Andronov, I. V.*, +, *LAWP 2009 872*

UTD-PO Formulation for the Multiple-Diffraction of Spherical Waves by an Array of Multimode Obstacles. *Rodriguez, J.-V.*, +, *LAWP 2009 379-382*

Electromagnetic wave interference

New Pawn-Shaped Dielectric Ring Resonator Loaded Hybrid Monopole Antenna for Improved Ultrawide Bandwidth. *Guha, D.*, +, *LAWP 2009 1178-1181*

Electromagnetic wave polarization

A Circularly Polarized Element for Reflectarray Antennas. *Albooyeh, M.*, +, *LAWP 2009 319-322*

A Compact Transmission-Line Metamaterial Antenna With Extended Bandwidth. *Zhu, J.*, +, *LAWP 2009 295-298*

A Design Strategy for Large Dielectric Radome Compensated Joints. *Virone, G.*, +, *LAWP 2009 546-549*

A Low-Profile Switchable Quadripolarization Diversity Aperture-Coupled Patch Antenna. *Wang, S.-Y.*, +, *LAWP 2009 522-524*

A Miniaturized, Dual-Band, Circularly Polarized Microstrip Antenna for Installation Into Satellite Mobile Phones. *Lee, H. R.*, +, *LAWP 2009 823-825*

A Novel Miniaturized-Element Frequency Selective Surface Having a Stable Resonance. *Chiu, C.-N.*, +, *LAWP 2009 1175-1177*

A Thin X-Band Microwave Absorber Using a Center Shorted Spiral Medium. *Liu, Y.*, +, *LAWP 2009 271-274*

A Tripolarization Antenna Fed by Proximity Coupling and Probe. *Zhong, H.*, +, *LAWP 2009 465-467*

Broadband Slot-Type Bruce Array Fed by a Microstrip-to-Slotline T-Junction. *Chen, S.-Y.*, +, *LAWP 2009 116-119*

Cross-Polarization Cancellation in an Offset Parabolic Reflector Antenna Using a Corrugated Matched Feed. *Sharma, S. B.*, +, *LAWP 2009 861-864*

Cylindrical Cavity-Backed Antenna. *Paek, J. K.*, +, *LAWP 2009 852-855*
Derivation and Analysis of Spatial Correlation for 2×2 MIMO System. *ManhTuan, D.*, +, *LAWP 2009 409-413*

Design and Implementation of a Compact 6-Port Antenna. *Chiu, C.-Y.*, +, *LAWP 2009 767-770*

Design and Optimization of Compact Balanced Antipodal Staircase Bow-Tie Antenna. *Dadgarpour, A.*, +, *LAWP 2009 1135-1138*

Dual-Band Probe-Fed Stacked Patch Antenna for GNSS Applications. *Wang, Z.*, +, *LAWP 2009 100-103*

Effects of Artificial Magnetic Conductors in the Design of Low-Profile High-Gain Planar Antennas With High-Permittivity Dielectric Superstrate. *Foroozesh, A.*, +, *LAWP 2009 10-13*

Efficient, Low-Cost Integrated Waveguide-Fed Planar Antenna Array for Ku-Band Applications. *Borji, A.*, +, *LAWP 2009 336-339*

Improving the Cross-Polar Performance of an Offset Parabolic Reflector Antenna Using a Rectangular Matched Feed. *Sharma, S. B.*, +, *LAWP 2009 513-516*

MIMO Channel Capacity With Polarization Diversity in Arched Tunnels. *Molina-Garcia-Pardo, J.-M.*, +, *LAWP 2009 1186-1189*

New Development Around M-PRS Antennas for Sectoral Coverage of Telecommunication Networks With Dual Polarization. *Hajj, M.*, +, *LAWP 2009 670-673*

Novel Dual Circularly Polarized Radiating Element for Spherical Phased-Array Application. *Kumar, C.*, +, *LAWP 2009 826-829*

Pattern and Polarization Diversity Antenna With High Isolation for Portable Wireless Devices. *Wang, X.*, +, *LAWP 2009 209-211*

Perturbed Square-Ring Slot Antenna With Reconfigurable Polarization. *Dorsey, W. M.*, +, *LAWP 2009 603-606*

Polarization Constraints in Dual-Polarized Phased Arrays Derived From an Infinite Current Sheet Model. *Boryszenko, A. O.*, +, *LAWP 2009 955-958*

Rain Depolarization Measurements on Low Margin Ku-Band Satellite Signal at a Tropical Location. *Maitra, A.*, +, *LAWP 2009 445-448*

Reciprocity Considerations in Microstrip Reflectarrays. *Rengarajan, S. R.*, +, *LAWP 2009 1206-1209*

Retrodirective Antenna Spatial Data Protection. *Fusco, V. F.*, +, *LAWP 2009 490-493*

Wideband Single-Feed Circularly Polarized Patch Antenna With Conical Radiation Pattern. *Guo, Y.-X.*, +, *LAWP 2009 924-926*

Electromagnetic wave propagation

A Perfectly Matched Layer for Lossy Media at Extremely Low Frequencies. *Sullivan, D. M.*, +, *LAWP 2009 1080-1083*

An Efficient 2D ADI-FDTD Modeling of High-Order, Frequency-Dependent Media. *Pereda, J. A.*, +, *LAWP 2009 724-727*

Beam Scanning Using Flat Transformation Electromagnetic Focusing Lenses. *Kwon, D.-H.*, +, *LAWP 2009 1115-1118*

Extraction of Wave Propagation Mechanisms in a Cut-Wire Array Using the ESPRIT Algorithm. *Li, Y.*, +, *LAWP 2009 744-747*

Grooves-Assisted Surface Wave Modulation in Two-Slot Array for Mutual Coupling Reduction and Gain Enhancement. *Huang, C.*, +, *LAWP 2009 912-915*

Highly Efficient Leaky-Wave Antenna Array Using a Power-Recycling Series Feeding Network. *Nguyen, H. V.*, +, *LAWP 2009 441-444*

On Multipath Propagation in Electrically Large Reflective Spaces. *Tait, G.*, +, *LAWP 2009 232-235*

On the Nature of Numerical Plane Waves in FDTD. *Tan, T.*, +, *LAWP 2009 505-508*

Temporal Dispersion Characterization of Over-Building Propagation Applied to Iso-Frequency Repeaters. *Rubio, L.*, +, *LAWP 2009 509-512*

Two-Element PIFA Antenna System With Inherent Performance of Low Mutual Coupling. *Pang, J.-Y.*, +, *LAWP 2009 1223-1226*

Electromagnetic wave reflection

A Thin X-Band Microwave Absorber Using a Center Shorted Spiral Medium. *Liu, Y.*, +, *LAWP 2009 271-274*

On Multipath Propagation in Electrically Large Reflective Spaces. *Tait, G.*, +, *LAWP 2009 232-235*

Electromagnetic wave scattering

A Cube-Based Scheme of IE-ODDM-MLFMA for Electromagnetic Scattering Problems. *Li, W.-D.*, +, *LAWP 2009 630-633*

A Hermite Inter/Extrapolation Scheme for MoM Matrices Over a Frequency Band. *Li, W.-D.*, +, *LAWP 2009 782-785*

Analysis of Scattering from Multiple Objects by the Finite-Difference Frequency-Domain Method With an Iteration-Free Multiregion Technique. *Zheng, G.*, +, *LAWP 2009 794-797*

Analysis of the Variability in the Raindrop Size Distribution and Its Effect on Attenuation at 20-40 GHz. *Townsend, A. J.*, +, *LAWP 2009 1210-1213*

Characteristic Spherical Wave Expansion With Application to Scattering and Radiation Problems. *Laviada, J.*, +, *LAWP 2009 599-602*

Cylindrical Cavity-Backed Antenna. *Paek, J. K.*, +, *LAWP 2009 852-855*

Design of Decoupling Networks for Circulant Symmetric Antenna Arrays. *Coetsee, J. C.*, +, *LAWP 2009 291-294*

Electromagnetic Scattering From Multiple Slant Strips. *Ock, J. S.*, +, *LAWP 2009 40-43*

Excitation of Plane Waves from FDTD Analysis of Anisotropic Layered Media. *Fang, Y.*, +, *LAWP 2009 414-417*

General Electromagnetic Boundary Conditions Involving Normal Field Components. *Lindell, I. V.*, +, *LAWP 2009 877-880*

Higher Order FEM-MoM Domain Decomposition for 3-D Electromagnetic Analysis. *Ilic, M. M.*, +, *LAWP 2009 970-973*

Two-Step Lagrange Interpolation Method for the Multilevel Fast Multipole Algorithm. *Ergul, .*, +, *LAWP 2009 69-71*

Electromagnetic waveguides

Analysis of a Traveling-Wave Waveguide Array With Narrow-Wall Slots Using Higher Order Basis Functions in Method of Moments. *Zhao, X.-W.*, +, *LAWP 2009 1390-1393*

Electromagnetic waves

Analysis of Simplified SB-ADI Scheme for Two-Dimensional Maxwell's Equations. *Kong, K.-B.*, +, *LAWP 2009 1002-1005*

Evaluation of the Radiation Efficiency and the Noise Temperature of Low-Loss Antennas. *Maaskant, R.*, +, *LAWP 2009 1166-1170*

Improved-Accuracy Source Reconstruction on Arbitrary 3-D Surfaces. *Araque Quijano, J. L.*, +, *LAWP 2009 1046-1049*

Electromagnetics

Difficulties in Recognizing Ill-Posed Electromagnetic Problems Involving Wrong Effective Models of Media. *Bozza, G.*, +, *LAWP 2009 1283-1287*

Electrostatic discharge

Tradeoff of Transmitted Power in Time-Reversed Impulse Radio Ultrawideband Communications. *Liu, X.*, +, *LAWP 2009 1426-1429*

Equations

Strong Singularity Reduction for Curved Patches for the Integral Equations of Electromagnetics. *Weile, D. S.*, +, *LAWP 2009 1370-1373*

Equivalent circuits

A Design Strategy for Large Dielectric Radome Compensated Joints. *Virone, G.*, +, *LAWP 2009 546-549*

Circuit Modeling of a Small Broadband Conical Antenna. *Palud, S.*, +, *LAWP 2009 96-99*

Design of Resistive Loading Vivaldi Antenna. *Deng, C.*, +, *LAWP 2009 240-243*

Mode-Based Analysis of Resonant Characteristics for Near-Field Coupled Small Antennas. *Tak, Y.*, +, *LAWP 2009 1238-1241*

Error statistics

Retrodirective Antenna Spatial Data Protection. *Fusco, V. F.*, +, *LAWP 2009 490-493*

Extrapolation

A Hermite Inter/Extrapolation Scheme for MoM Matrices Over a Frequency Band. *Li, W.-D.*, +, *LAWP 2009 782-785*

F

Fabry-Perot

Design and Analysis of Three-Dimensionalized ELC Metamaterial Unit Cell. *Sajuyigbe, S.*, +, *LAWP 2009 1268-1271*

A Liquid-Crystal, Tunable, Ultra-Thin Fabry-Perot Resonator in Ka Band. *Tentillier, N.*, +, *LAWP 2009 701-704*

Fading

Analysis of Correlated Shadow Fading in Dual-Link Indoor Radio Wave Propagation. *Poutanen, J.*, +, *LAWP 2009 1190-1193*

Characterization and Modeling of Dynamic On-Body Propagation at 4.5 GHz. *Zhen, B.*, +, *LAWP 2009 1263-1267*

Statistical Model for 4.5-GHz Narrowband On-Body Propagation Channel With Specific Actions. *Kim, M.*, +, *LAWP 2009 1250-1254*

Fast Fourier transforms

An Efficient Technique for the Analysis of Large Multilayered Printed Arrays. *De Vita, P.*, +, *LAWP 2009 104-107*

Echo-Cancellation Technique With Recursive Data in Nonanechoic Test Sites. *Moon, J.-I.*, +, *LAWP 2009 558-560*

Feeds

A Coaxial Corrugated Dual-Band Horn Feed. *Zhang, Q.*, +, *LAWP 2009 1357-1359*

A Ku-K Dual-Band Compact Circular Corrugated Horn for Satellite Communications. *Addamo, G.*, +, *LAWP 2009 1418-1421*

Ferrite circulators

The Circulator and Antenna as a Single Integrated System. *Adams, R. S.*, +, *LAWP 2009 165-168*

Ferrite-loaded waveguides

Dual-Band Full-Space Scanning Leaky-Wave Antenna Based on Ferrite-Loaded Open Waveguide. *Kodera, T.*, +, *LAWP 2009 1202-1205*

Ferrites

DVB-H Antenna Design Using Folder-Type Chassis and Coupling Element on a Ferrite. *Rhyu, H.*, +, *LAWP 2009 453-456*

Finite difference methods

- 3D Image Reconstruction in Microwave Tomography Using an Efficient FDTD Model. *Fhager, A.*, +, *LAWP 2009 1353-1356*
- FDTD Numerical Tests of the Convolutional PML at Extremely Low Frequencies. *Wagner, C. L.*, +, *LAWP 2009 1398-1401*
- Tradeoff of Transmitted Power in Time-Reversed Impulse Radio Ultrawideband Communications. *Liu, X.*, +, *LAWP 2009 1426-1429*

Finite difference time-domain analysis

- A Liquid-Crystal, Tunable, Ultra-Thin Fabry-Perot Resonator in Ka Band. *Tentillier, N.*, +, *LAWP 2009 701-704*
- A Perfectly Matched Layer for Lossy Media at Extremely Low Frequencies. *Sullivan, D. M.*, +, *LAWP 2009 1080-1083*
- An Efficient 2D ADI-FDTD Modeling of High-Order, Frequency-Dependent Media. *Pereda, J. A.*, +, *LAWP 2009 724-727*
- An Implicit 4-Stage ADI Wave-Equation PML Algorithm for 2-D FDTD Simulations. *Ramadan, O.*, +, *LAWP 2009 391-393*
- An LOD-FDTD Method for the Analysis of Periodic Structures at Normal Incidence. *Shibayama, J.*, +, *LAWP 2009 890-893*
- Analysis of Dielectric Resonator Antenna Array by Using Unconditionally Stable Pseudospectral Time-Domain Method. *Zheng, H.-X.*, +, *LAWP 2009 344-347*
- Analysis of ELF Propagation Along the Earth Surface Using the FDTD Model Based on the Spherical Triangle Meshing. *Wang, Y.*, +, *LAWP 2009 1017-1020*
- Analysis of Scattering from Multiple Objects by the Finite-Difference Frequency-Domain Method With an Iteration-Free Multiregion Technique. *Zheng, G.*, +, *LAWP 2009 794-797*
- Analysis of Simplified SB-ADI Scheme for Two-Dimensional Maxwell's Equations. *Kong, K.-B.*, +, *LAWP 2009 1002-1005*
- Complex Envelope Four-Stage ADI-FDTD Algorithm for Narrowband Electromagnetic Applications. *Ramadan, O.*, +, *LAWP 2009 1084-1086*
- Design and Optimization of Compact Balanced Antipodal Staircase Bow-Tie Antenna. *Dadgarpour, A.*, +, *LAWP 2009 1135-1138*
- Design and Realization of a Linearly Polarized Eleven Feed for 10 GHz. *Yang, J.*, +, *LAWP 2009 64-68*
- Dual Printed Antenna for Wi-Fi Applications. *Avila-Navarro, E.*, +, *LAWP 2009 596-598*
- Dual Problem Space FDTD Simulation for Underwater ELF Applications. *Xia, Y.*, +, *LAWP 2009 498-501*
- Excitation of Plane Waves for FDTD Analysis of Anisotropic Layered Media. *Fang, Y.*, +, *LAWP 2009 414-417*
- FDTD Analysis of Radiation Performance of a Cylinder Plasma Antenna. *Li, X.-S.*, +, *LAWP 2009 756-758*
- Internal Resistance of Voltage Source by Use of the Finite-Difference Time-Domain Technique. *Lee, A.-K.*, +, *LAWP 2009 1194-1197*
- On the Nature of Numerical Plane Waves in FDTD. *Tan, T.*, +, *LAWP 2009 505-508*
- Perturbation Technique to Analyze Mutual Coupling in Reflectarrays. *Jamaluddin, M. H.*, +, *LAWP 2009 697-700*
- Study of Low-Dispersion ADI-FDTD Method With Isotropic Finite Difference. *Zhao, A.-X.*, +, *LAWP 2009 275-278*
- Subwavelength Target Detection Using Ultrawideband Time-Reversal Techniques With a Multilayered Dielectric Slab. *Liao, T.-H.*, +, *LAWP 2009 835-838*
- Through-Wall Imaging of Moving Targets Using UWB Random Noise Radar. *Wang, H.*, +, *LAWP 2009 802-805*
- Weighted Laguerre Polynomials-Finite Difference Method for Time-Domain Modeling of Thin Wire Antennas in a Loaded Cavity. *Zhao, H.*, +, *LAWP 2009 1131-1134*

Finite element analysis

- A Circularly Polarized Element for Reflectarray Antennas. *Albooyeh, M.*, +, *LAWP 2009 319-322*
- A Further Study on the Use of the Alternating-Direction Implicit Scheme for the Finite-Element Time-Domain Method. *Du, L.*, +, *LAWP 2009 775-778*
- Design of Planar Artificial Magnetic Conductor Ground Plane Using Frequency-Selective Surfaces for Frequencies Below 1 GHz. *de Cos, M. E.*, +, *LAWP 2009 951-954*
- Difficulties in Recognizing Ill-Posed Electromagnetic Problems Involving Wrong Effective Models of Media. *Bozza, G.*, +, *LAWP 2009 1283-1287*
- Fast Analysis of Terahertz Integrated Lens Antennas Employing the Spectral Domain Ray Tracing Method. *Hailu, D. M.*, +, *LAWP 2009 37-39*
- FEM-Based Surface Wave Multimixed-Path Propagator and Path Loss Predictions. *Apaydin, G.*, +, *LAWP 2009 1010-1013*

- Higher Order FEM-MoM Domain Decomposition for 3-D Electromagnetic Analysis. *Ilic, M. M.*, +, *LAWP 2009 970-973*
- Improved Formulation for Admittance of Thin and Short Monopole Driving From Coaxial Line Into Dissipative Media. *You, K. Y.*, +, *LAWP 2009 1246-1249*
- RF Coupling in a 433-MHz Biotelemetry System for an Artificial Hip. *Weiss, M. D.*, +, *LAWP 2009 916-919*
- Study of Folded Reflector Multibeam Antenna With Dielectric Rods as Primary Source. *Nguyen, T. P.*, +, *LAWP 2009 786-789*
- Twin Orthogonally Polarized UWB Aperture Antenna Elements With Optimized Profile Feed for Optimal Adaptation. *Martinez-Fernandez, J.*, +, *LAWP 2009 517-521*

Flip-chip devices

- Flip-Chip Interconnection Effects on 60-GHz Microstrip Antenna Performance. *Felic, G.*, +, *LAWP 2009 283-286*

Focal planes

- Beam Scanning Using Flat Transformation Electromagnetic Focusing Lenses. *Kwon, D.-H.*, +, *LAWP 2009 1115-1118*

Focusing

- Beam Scanning Using Flat Transformation Electromagnetic Focusing Lenses. *Kwon, D.-H.*, +, *LAWP 2009 1115-1118*
- Microwave S-Parameter Characterization of an Antenna-Coupled Catadioptric Lens. *Banik, B.*, +, *LAWP 2009 1299-1301*

Forestry

- Investigation of Short-Range Radiowave Propagation at HF/VHF Frequencies in a Forested Environment. *Li, Y.*, +, *LAWP 2009 1182-1185*

Fourier analysis

- The Use of Frequency-Orthogonal Pseudonoise (FOPN) Sounding Signals for Identifying Transmissions From Different Transmit Antennas. *Dahman, G. S.*, +, *LAWP 2009 657-660*

Fourier transforms

- The Use of Frequency-Orthogonal Pseudonoise (FOPN) Sounding Signals for Identifying Transmissions From Different Transmit Antennas. *Dahman, G. S.*, +, *LAWP 2009 657-660*

Fractal antennas

- A Hybrid Prefractal Three-Band Antenna for Multistandard Mobile Wireless Applications. *Azaro, R.*, +, *LAWP 2009 905-908*
- A Monopolar Quad-Band Antenna Based on a Hilbert Self-Affine Prefractal Geometry. *Azaro, R.*, +, *LAWP 2009 177-180*
- A Multifractal Cantor Antenna for Multiband Wireless Applications. *Manimegalai, B.*, +, *LAWP 2009 359-362*
- Dual-Band Antenna With Fractal-Based Ground Plane for WLAN Applications. *Gemio, J.*, +, *LAWP 2009 748-751*
- Experimental Study of a 2-D Irregular Fractal-Jet Printed Antenna. *Rmili, H.*, +, *LAWP 2009 328-331*

Fractals

- A Multifractal Cantor Antenna for Multiband Wireless Applications. *Manimegalai, B.*, +, *LAWP 2009 359-362*
- Size Reduction and Bandwidth Enhancement of a Waveguide Bandpass Filter Using Fractal-Shaped Irises. *Oloumi, D.*, +, *LAWP 2009 1214-1217*

Frequency allocation

- Novel Dual Circularly Polarized Radiating Element for Spherical Phased-Array Application. *Kumar, C.*, +, *LAWP 2009 826-829*

Frequency domain analysis

- FDTD Numerical Tests of the Convolutional PML at Extremely Low Frequencies. *Wagner, C. L.*, +, *LAWP 2009 1398-1401*

Frequency measurement

- Application of Bionics in Antenna Radar Cross Section Reduction. *Jiang, W.*, +, *LAWP 2009 1275-1278*
- Miniaturized Planar Annular Slot Antenna Design Utilizing Shorting Conducting Strip. *Ko, C.-H.*, +, *LAWP 2009 1360-1363*
- Statistical Model for 4.5-GHz Narrowband On-Body Propagation Channel With Specific Actions. *Kim, M.*, +, *LAWP 2009 1250-1254*

Frequency selective surfaces

- A Miniaturized Dual-Band Frequency Selective Surface (FSS) With Closed Loop and Its Complementary Pattern. *Hu, X.-D.*, +, *LAWP 2009 1374-1377*
- A Novel Dual-Band Spiral Antenna for a Satellite and Terrestrial Communication System. *Chiu, C.-N.*, +, *LAWP 2009 624-626*
- A Novel Miniaturized-Element Frequency Selective Surface Having a Stable Resonance. *Chiu, C.-N.*, +, *LAWP 2009 1175-1177*
- Design and Simulation of a Miniature Thick-Screen Frequency Selective Surface Radome. *Lin, B.-Q.*, +, *LAWP 2009 1065-1068*
- Design of Frequency-Selective Surfaces Radome for a Planar Slotted Waveguide Antenna. *Chen, H.*, +, *LAWP 2009 1231-1233*

Design of Planar Artificial Magnetic Conductor Ground Plane Using Frequency-Selective Surfaces for Frequencies Below 1 GHz. *de Cos, M. E., +, LAMP 2009 951-954*

Frequency-Selective Surface to Prevent Interference Between Radar and SATCOM Antennas. *Monni, S., +, LAMP 2009 220-223*

On the Bandwidth of High-Impedance Frequency Selective Surfaces. *Costa, F., +, LAMP 2009 1341-1344*

G

Gain

Characterization and Modeling of Dynamic On-Body Propagation at 4.5 GHz. *Zhen, B., +, LAMP 2009 1263-1267*

High-Efficient and High-Gain Superstrate Antenna for 60-GHz Indoor Communication. *Vettikalladi, H., +, LAMP 2009 1422-1425*

Planar High-Gain WLAN PCB Antenna. *Zelenchuk, D. E., +, LAMP 2009 1314-1316*

Statistical Model for 4.5-GHz Narrowband On-Body Propagation Channel With Specific Actions. *Kim, M., +, LAMP 2009 1250-1254*

Gamma distribution

Analysis of the Variability in the Raindrop Size Distribution and Its Effect on Attenuation at 20 40 GHz. *Townsend, A. J., +, LAMP 2009 1210-1213*

Gas sensors

A Novel Conformal RFID-Enabled Module Utilizing Inkjet-Printed Antennas and Carbon Nanotubes for Gas-Detection Applications. *Yang, L., +, LAMP 2009 653-656*

Geographic information systems

Use of Geospatial Resources for Radio Propagation Prediction in Urban Areas. *Yun, Z., +, LAMP 2009 587-591*

Geometrical theory of diffraction

UTD-PO Formulation for the Multiple-Diffraction of Spherical Waves by an Array of Multimodeled Obstacles. *Rodriguez, J.-V., +, LAMP 2009 379-382*

Geometry

A Ku-K Dual-Band Compact Circular Corrugated Horn for Satellite Communications. *Addamo, G., +, LAMP 2009 1418-1421*

A Monopolar Quad-Band Antenna Based on a Hilbert Self-Affine Prefractal Geometry. *Azaro, R., +, LAMP 2009 177-180*

Improved Cross-Polarization Characteristics of Circular Microstrip Antenna Employing Arc-Shaped Defected Ground Structure (DGS). *Guha, D., +, LAMP 2009 1367-1369*

New Pawn-Shaped Dielectric Ring Resonator Loaded Hybrid Monopole Antenna for Improved Ultrawide Bandwidth. *Guha, D., +, LAMP 2009 1178-1181*

Geophysical measurement techniques

FDTD Numerical Tests of the Convolutional PML at Extremely Low Frequencies. *Wagner, C. L., +, LAMP 2009 1398-1401*

Global Positioning System

Comment on "Short-Delay Multipath Mitigation Technique Based on Virtual Multipath". *Zhang, S., +, LAMP 2009 1434-1435*

Dual-Band Probe-Fed Stacked Patch Antenna for GNSS Applications. *Wang, Z., +, LAMP 2009 100-103*

Low-Profile Integrated Microstrip Antenna for GPS-DSRC Application. *Rafi, G. Z., +, LAMP 2009 44-48*

Reply to "Comment on "Short-Delay Multipath Mitigation Technique Based on Virtual Multipath"". *Zhang, Z., +, LAMP 2009 1435*

Graph theory

Optimization and Complexity Reduction of Switch-Reconfigured Antennas Using Graph Models. *Costantine, J., +, LAMP 2009 1072-1075*

The Analysis of a Reconfigurable Antenna With a Rotating Feed Using Graph Models. *Costantine, J., +, LAMP 2009 943-946*

Green's function methods

Cylindrical Cavity-Backed Antenna. *Paek, J. K., +, LAMP 2009 852-855*

Efficient Calculation of the Green's Function for 2-D Periodic Line Sources Using Ewald Method. *Park, M.-J., +, LAMP 2009 565-567*

Efficient Near-Field Interpolation of Mixed-Potential Green's Functions in Layered Media. *Valerio, G., +, LAMP 2009 674-677*

Electromagnetic Scattering From Multiple Slant Strips. *Ock, J. S., +, LAMP 2009 40-43*

Evaluation of Green's Functions of Rectangular Cavities Around Resonant Frequencies in the Method of Moments. *Lu, M., +, LAMP 2009 204-208*

Treatment of Singular Integrals on Generalized Curvilinear Parametric Quadrilaterals in Higher Order Method of Moments. *Ding, W., +, LAMP 2009 1310-1313*

+ Check author entry for coauthors

Ground penetrating radar

FDTD Numerical Tests of the Convolutional PML at Extremely Low Frequencies. *Wagner, C. L., +, LAMP 2009 1398-1401*

H

Handicapped aids

Near-Field Control of Handset Antennas Based on Inverted-Top Wavetraps: Focus on Hearing-Aid Compatibility. *Holopainen, J., +, LAMP 2009 592-595*

Hearing aids

Near-Field Control of Handset Antennas Based on Inverted-Top Wavetraps: Focus on Hearing-Aid Compatibility. *Holopainen, J., +, LAMP 2009 592-595*

Height measurement

Use of Geospatial Resources for Radio Propagation Prediction in Urban Areas. *Yun, Z., +, LAMP 2009 587-591*

Helmholtz equations

Generalization of the Barnes Hut Algorithm for the Helmholtz Equation in Three Dimensions. *Aronsson, J., +, LAMP 2009 425-428*

HF antennas

A Lumped-Circuit Model for a Triband Trapped Dipole Array Part 1: Model Description. *Coburn, W. O., +, LAMP 2009 14-18*

HF radio propagation

FEM-Based Surface Wave Multimixed-Path Propagator and Path Loss Predictions. *Apaydin, G., +, LAMP 2009 1010-1013*

Investigation of Short-Range Radiowave Propagation at HF/VHF Frequencies in a Forested Environment. *Li, Y., +, LAMP 2009 1182-1185*

Hidden Markov models

Characterization and Modeling of Dynamic On-Body Propagation at 4.5 GHz. *Zhen, B., +, LAMP 2009 1263-1267*

Hilbert spaces

A Monopolar Quad-Band Antenna Based on a Hilbert Self-Affine Prefractal Geometry. *Azaro, R., +, LAMP 2009 177-180*

Horn antennas

A Coaxial Corrugated Dual-Band Horn Feed. *Zhang, Q., +, LAMP 2009 1357-1359*

A Novel Compact Dual-Linear Polarized UWB Antenna for VHF/UHF Applications. *Osaretin, I. A., +, LAMP 2009 145-148*

Echo-Cancellation Technique With Recursive Data in Nonanechoic Test Sites. *Moon, J.-I., +, LAMP 2009 558-560*

Improving the Cross-Polar Performance of an Offset Parabolic Reflector Antenna Using a Rectangular Matched Feed. *Sharma, S. B., +, LAMP 2009 513-516*

Low-Loss Wideband Multimodal Interferometric Antenna for DOA in Azimuth and Elevation. *Remez, J., +, LAMP 2009 898-902*

Model-Order Reduction Technique for the Efficient Analysis of Complex Wavguide Structures An Application to the Design of Corrugated Horns. *Addamo, G., +, LAMP 2009 1039-1042*

Near-Field Focusing With a Corrugated Surface. *Imani, M. F., +, LAMP 2009 421-424*

I

IEEE

2009 List of Reviewers. *LAMP 2009 1437-1440*

Image denoising

Drift Denoising of Experimental TE Measurements for Imaging 2D PEC Cylinders. *Hassan, A. M., +, LAMP 2009 1218-1222*

Image motion analysis

Through-Wall Imaging of Moving Targets Using UWB Random Noise Radar. *Wang, H., +, LAMP 2009 802-805*

Image reconstruction

3D Image Reconstruction in Microwave Tomography Using an Efficient FDTD Model. *Fhager, A., +, LAMP 2009 1353-1356*

Drift Denoising of Experimental TE Measurements for Imaging 2D PEC Cylinders. *Hassan, A. M., +, LAMP 2009 1218-1222*

Image representation

Use of Geospatial Resources for Radio Propagation Prediction in Urban Areas. *Yun, Z., +, LAMP 2009 587-591*

Image resolution

Near-Space Wide-Swath Radar Imaging With Multiaperture Antenna. *Wang, W.-Q., +, LAMP 2009 461-464*

Imaging

Two-Dimensional Subwavelength-Focused Imaging Using a Near-Field End-Fire Antenna-Array Probe. *Markley, L.*, +, *LAWP 2009 1025-1028*

Imaging phantoms

Microwave Radar-Based Breast Cancer Detection: Imaging in Inhomogeneous Breast Phantoms. *Klemm, M.*, +, *LAWP 2009 1349-1352*

Impedance

A Crooked U-Slot Dual-Band Antenna With Radial Stub Feeding. *Bae, H. R.*, +, *LAWP 2009 1345-1348*

Compact UWB Planar Monopole Antenna. *Naser-Moghadasi, M.*, +, *LAWP 2009 1382-1385*

CPW-Fed Planar Printed Monopole Antenna With Impedance Bandwidth Enhanced. *Deng, C.*, +, *LAWP 2009 1394-1397*

On the Bandwidth of High-Impedance Frequency Selective Surfaces. *Costa, F.*, +, *LAWP 2009 1341-1344*

Uncoupled Impedance Matching for Capacity Maximization of Compact MIMO Arrays. *Tsen, W. F.*, +, *LAWP 2009 1295-1298*

Impedance matching

Demonstration of Impedance Matching Using a mu-Negative (MNG) Metamaterial. *Gregor, R. B.*, +, *LAWP 2009 92-95*

Design of a Tapered Balun for Broadband Arrays With Closely Spaced Elements. *Xia, T.*, +, *LAWP 2009 1291-1294*

Directive Coupled Sectorial Loops Antenna for Ultrawideband Applications. *Elsherbini, A.*, +, *LAWP 2009 576-579*

Dual-Band Probe-Fed Stacked Patch Antenna for GNSS Applications. *Wang, Z.*, +, *LAWP 2009 100-103*

Dual-Band Spline-Shaped PCB Antenna for Wi-Fi Applications. *Lizzi, L.*, +, *LAWP 2009 616-619*

Dual-Orthogonal Polarized Antenna for UWB-IR Technology. *Adamiuk, G.*, +, *LAWP 2009 981-984*

Efficiency-Enhanced and Size-Reduced Coupled Twin Slots Capacitively Fed by Conductor-Backed Coplanar Waveguide. *Lee, C.-H.*, +, *LAWP 2009 1033-1035*

Experimental Study of a 2-D Irregular Fractal-Jet Printed Antenna. *Rmili, H.*, +, *LAWP 2009 328-331*

Integrated Dual Planar Inverted-F Antenna With Enhanced Isolation. *Lee, C.-H.*, +, *LAWP 2009 963-965*

Method of Suppressing the Side Lobe of a Tapered Short Leaky Wave Antenna. *Wu, J.-W.*, +, *LAWP 2009 1146-1149*

Near-Field Focusing With a Corrugated Surface. *Imani, M. F.*, +, *LAWP 2009 421-424*

Sierpinski Pyramidal Antenna Loaded With a Cutoff Open-Ended Waveguide. *Hebib, S.*, +, *LAWP 2009 352-355*

Tuning Method for a New Electrically Small Antenna With Low Q . *Adams, J. J.*, +, *LAWP 2009 303-306*

Ultrawideband Dielectric Resonator Antenna for DVB-H and GSM Applications. *Huiteima, L.*, +, *LAWP 2009 1021-1027*

Uncoupled Impedance Matching for Capacity Maximization of Compact MIMO Arrays. *Tsen, W. F.*, +, *LAWP 2009 1295-1298*

Impedance matrix

A Simple and Effective Procedure for Connector Deembedding in Antenna Arrays. *Pinchera, D.*, +, *LAWP 2009 534-537*

Indoor radio

A Wideband, Low-Profile, Conical-Beam Antenna With Horizontal Polarization for Indoor Wireless Communications. *Wu, B. Q.*, +, *LAWP 2009 634-636*

Analysis of Correlated Shadow Fading in Dual-Link Indoor Radio Wave Propagation. *Poutanen, J.*, +, *LAWP 2009 1190-1193*

Effect of Pedestrian Movement on MIMO-OFDM Channel Capacity in an Indoor Environment. *Das Gupta, J. D.*, +, *LAWP 2009 682-685*

Link Performance Improvement Using Reconfigurable Multiantenna Systems. *Sukumar, C. R.*, +, *LAWP 2009 873-876*

Inductance

A Miniaturized Dual-Band Frequency Selective Surface (FSS) With Closed Loop and Its Complementary Pattern. *Hu, X.-D.*, +, *LAWP 2009 1374-1377*

On the Bandwidth of High-Impedance Frequency Selective Surfaces. *Costa, F.*, +, *LAWP 2009 1341-1344*

Resonator-Loaded Dual-Band Monopole for Universal WLAN. *Gemio, J.*, +, *LAWP 2009 736-739*

Inductors

A Coaxial Corrugated Dual-Band Horn Feed. *Zhang, Q.*, +, *LAWP 2009 1357-1359*

Experimental Evaluations of Printed Circuit Board and On-Chip Inductors Backed by AMC Surfaces. *Kostka, D.*, +, *LAWP 2009 720-723*

Experimental Verification of Z Antennas at UHF Frequencies. *Ziolkowski, R. W.*, +, *LAWP 2009 1329-1333*

Inhomogeneous media

Automotive Radome Design Reflection Reduction of Stratified Media. *Fitzek, F.*, +, *LAWP 2009 1076-1079*

Excitation of Plane Waves for FDTD Analysis of Anisotropic Layered Media. *Fang, Y.*, +, *LAWP 2009 414-417*

Ink jet printing

A Novel Conformal RFID-Enabled Module Utilizing Inkjet-Printed Antennas and Carbon Nanotubes for Gas-Detection Applications. *Yang, L.*, +, *LAWP 2009 653-656*

Integral equations

A Cube-Based Scheme of IE-ODDM-MLFMA for Electromagnetic Scattering Problems. *Li, W.-D.*, +, *LAWP 2009 630-633*

A Simple Strip Model in the Volume-Surface Integral Equation for Analysis of Arbitrary Probe-Fed Conformal Microstrip Antennas. *He, M.*, +, *LAWP 2009 530-533*

Coupling Between Waveguide-Fed Planar Slot Arrays. *Rengarajan, S. R.*, +, *LAWP 2009 429-432*

Efficient Generation of Method of Moments Matrices Using Equivalent Dipole-Moment Method. *Yuan, J.*, +, *LAWP 2009 716-719*

Frequency-Selective Surface to Prevent Interference Between Radar and SATCOM Antennas. *Monni, S.*, +, *LAWP 2009 220-223*

Model-Order Reduction Technique for the Efficient Analysis of Complex Waveguide Structures An Application to the Design of Corrugated Horns. *Addamo, G.*, +, *LAWP 2009 1039-1042*

Strong Singularity Reduction for Curved Patches for the Integral Equations of Electromagnetics. *Weile, D. S.*, +, *LAWP 2009 1370-1373*

Treatment of Singular Integrals on Generalized Curvilinear Parametric Quadrilaterals in Higher Order Method of Moments. *Ding, W.*, +, *LAWP 2009 1310-1313*

Integrated circuit modeling

A Miniaturized Dual-Band Frequency Selective Surface (FSS) With Closed Loop and Its Complementary Pattern. *Hu, X.-D.*, +, *LAWP 2009 1374-1377*

Interference

Blind Adaptive Beamforming for Cyclostationary Signals: A Subspace Projection Approach. *Lee, J.-H.*, +, *LAWP 2009 1406-1409*

Interference suppression

Ultrawideband Suppression of Ground Bounce Noise in Multilayer PCB Using Locally Embedded Planar Electromagnetic Band-Gap Structures. *Li, L.*, +, *LAWP 2009 740-743*

Interpolation

A Hermite Inter/Extrapolation Scheme for MoM Matrices Over a Frequency Band. *Li, W.-D.*, +, *LAWP 2009 782-785*

An Interpolation Algorithm to Reduce the Reduced Matrix Fill-Time in CBFM. *Ogucu, G.*, +, *LAWP 2009 457-460*

Two-Step Lagrange Interpolation Method for the Multilevel Fast Multipole Algorithm. *Ergul, .*, +, *LAWP 2009 69-71*

Ionospheric electromagnetic wave propagation

Analysis of ELF Propagation Along the Earth Surface Using the FDTD Model Based on the Spherical Triangle Meshing. *Wang, Y.*, +, *LAWP 2009 1017-1020*

ISO standards

Temporal Dispersion Characterization of Over-Building Propagation Applied to Iso-Frequency Repeaters. *Rubio, L.*, +, *LAWP 2009 509-512*

Isolation technology

A Compact Planar MIMO Antenna System of Four Elements With Similar Radiation Characteristics and Isolation Structure. *Li, H.*, +, *LAWP 2009 1107-1110*

Iterative methods

Analysis of Scattering from Multiple Objects by the Finite-Difference Frequency-Domain Method With an Iteration-Free Multiregion Technique. *Zheng, G.*, +, *LAWP 2009 794-797*

Model-Order Reduction Technique for the Efficient Analysis of Complex Waveguide Structures An Application to the Design of Corrugated Horns. *Addamo, G.*, +, *LAWP 2009 1039-1042*

Sidelobe Reduction Through Element Phase Control in Uniform Subarrayed Array Antennas. *Rocca, P.*, +, *LAWP 2009 437-440*

Size Reduction and Bandwidth Enhancement of a Waveguide Bandpass Filter Using Fractal-Shaped Irises. *Oloumi, D.*, +, *LAWP 2009 1214-1217*

L

Laplace equations

Generalization of the Barnes Hut Algorithm for the Helmholtz Equation in Three Dimensions. *Aronsson, J.*, +, *LAWP 2009 425-428*

Laptop computers

Compact UWB Antenna With I-Shaped Band-Notch Parasitic Element for Laptop Applications. *Choi, N.*, +, *LAWP 2009 580-582*
Proximity Effects of Plastic Laptop Covers on Radiation Characteristics of 60-GHz Antennas. *Amadjikpe, A. L.*, +, *LAWP 2009 763-766*

Laser beams

Fast Analysis of Terahertz Integrated Lens Antennas Employing the Spectral Domain Ray Tracing Method. *Hailu, D. M.*, +, *LAWP 2009 37-39*

Laser mode locking

Hybrid Integration of a Bowtie Slot Antenna and a Quantum Dot Mode-Locked Laser. *Kim, J. H.*, +, *LAWP 2009 1337-1340*

Leaky wave antennas

A Liquid-Crystal, Tunable, Ultra-Thin Fabry-Perot Resonator in Ka Band. *Tentillier, N.*, +, *LAWP 2009 701-704*
Dual-Band Full-Space Scanning Leaky-Wave Antenna Based on Ferrite-Loaded Open Waveguide. *Kodera, T.*, +, *LAWP 2009 1202-1205*
Highly Efficient Leaky-Wave Antenna Array Using a Power-Recycling Series Feeding Network. *Nguyen, H. V.*, +, *LAWP 2009 441-444*
Input Impedance of Fabry-Perot, EBG, and Leaky-Wave Antennas Excited by a Line Source. *Vu, T.-H.*, +, *LAWP 2009 248-252*
Method of Suppressing the Side Lobe of a Tapered Short Leaky Wave Antenna. *Wu, J.-W.*, +, *LAWP 2009 1146-1149*
Performance Improvement of a Wideband MIMO System by Using Two-Port RLWA. *Piazza, D.*, +, *LAWP 2009 830-834*
Suppression of the Slot-Mode Radiation in a Slitted Waveguide Using Periodic Slot Perturbations. *Sutinjo, A.*, +, *LAWP 2009 550-553*

Lens antennas

A Concept for a Lens Configuration for 360° Scanning. *Zaghloul, A. I.*, +, *LAWP 2009 985-988*
Dual-Polarized Tapered Slot-Line Antenna Array Fed by Rotman Lens Air-Filled Ridge-Port Design. *Remez, J.*, +, *LAWP 2009 847-851*
Fast Analysis of Terahertz Integrated Lens Antennas Employing the Spectral Domain Ray Tracing Method. *Hailu, D. M.*, +, *LAWP 2009 37-39*

Lenses

Beam Scanning Using Flat Transformation Electromagnetic Focusing Lenses. *Kwon, D.-H.*, +, *LAWP 2009 1115-1118*
Microwave S-Parameter Characterization of an Antenna-Coupled Catadioptric Lens. *Banik, B.*, +, *LAWP 2009 1299-1301*
Planar Surface-Wave Sources and Metallic Grating Lenses for Controlled Guided-Wave Propagation. *Podilchak, S. K.*, +, *LAWP 2009 371-374*

Light emitting diodes

Broadband Linear Array With Photoconductive Weights. *Haupt, R. L.*, +, *LAWP 2009 1288-1290*

Linear antenna arrays

A Fraunhofer-Based Approach for the Assessment of the Field Radiated in the Fresnel Region of an Antenna. *Trinchero, D.*, +, *LAWP 2009 30-33*
A Substrate Integrated Waveguide Circular Polarized Slot Radiator and Its Linear Array. *Chen, P.*, +, *LAWP 2009 120-123*
Almost Time-Independent Performance in Time-Modulated Linear Arrays. *Manica, L.*, +, *LAWP 2009 843-846*
Beam Scanning Using Flat Transformation Electromagnetic Focusing Lenses. *Kwon, D.-H.*, +, *LAWP 2009 1115-1118*
Design of Low-Sidelobe Linear Arrays With High Aperture Efficiency and Interference Nulls. *Gomez, N. G.*, +, *LAWP 2009 607-610*
Diversity Gain and MIMO Capacity for Nonisotropic Environments Using a Reverberation Chamber. *Valenzuela-Valdes, J. F.*, +, *LAWP 2009 112-115*
Grating Lobe Reduction in Aperiodic Linear Arrays of Physically Large Antennas. *Barott, W. C.*, +, *LAWP 2009 406-408*
Multiobjective Synthesis of Antenna Arrays Using a Vector Tabu Search Algorithm. *Ho, S. L.*, +, *LAWP 2009 947-950*

Linear antennas

A Novel Compact Dual-Linear Polarized UWB Antenna for VHF/UHF Applications. *Osaretin, I. A.*, +, *LAWP 2009 145-148*

Liquid crystals

A Liquid-Crystal, Tunable, Ultra-Thin Fabry-Perot Resonator in Ka Band. *Tentillier, N.*, +, *LAWP 2009 701-704*

Log periodic antennas

94-GHz Log-Periodic Antenna on GaAs Substrate Using Air-Bridge Structure. *Baek, Y.-H.*, +, *LAWP 2009 909-911*

A Lumped-Circuit Model for a Triband Trapped Dipole Array Part 1: Model Description. *Coburn, W. O.*, +, *LAWP 2009 14-18*
Design and Realization of a Linearly Polarized Eleven Feed for 10 GHz. *Yang, J.*, +, *LAWP 2009 64-68*

Loop antennas

A New Printed Slot Loop Antenna With Tunable Strips for 2.4- and 5-GHz Wireless Applications. *Lee, Y.-C.*, +, *LAWP 2009 356-358*
Design and Experimental Verification of a 3D Magnetic EZ Antenna at 300 MHz. *Ziolkowski, R. W.*, +, *LAWP 2009 989-993*
Design of a Multiband Antenna for Mobile Handset Operations. *Hsieh, H.-W.*, +, *LAWP 2009 200-203*
Directive Coupled Sectorial Loops Antenna for Ultrawideband Applications. *Elsherbini, A.*, +, *LAWP 2009 576-579*
Matching Techniques for Miniaturized UHF RFID Loop Antennas. *Im, Y.-T.*, +, *LAWP 2009 266-270*

Loss measurement

A Millimeter-Wave Microstrip Antenna Array on Ultra-Flexible Micromachined Polydimethylsiloxane (PDMS) Polymer. *Hage-Ali, S.*, +, *LAWP 2009 1306-1309*
A New Reconfigurable Antenna Design for Cognitive Radio. *Tawk, Y.*, +, *LAWP 2009 1378-1381*

Low-pass filters

Drift Denoising of Experimental TE Measurements for Imaging 2D PEC Cylinders. *Hassan, A. M.*, +, *LAWP 2009 1218-1222*

Lumped parameter networks

Controllable Magnetic Metamaterial Using Digitally Addressable Split-Ring Resonators. *Hand, T. H.*, +, *LAWP 2009 262-265*

M

Magnetic devices

Experimental Evaluations of Printed Circuit Board and On-Chip Inductors Backed by AMC Surfaces. *Kostka, D.*, +, *LAWP 2009 720-723*

Magnetic fields

A Compact Multiband Antenna Based on DNG ZOR for Wireless Mobile System. *Ji, J. K.*, +, *LAWP 2009 920-923*

Magnetic materials

Controllable Magnetic Metamaterial Using Digitally Addressable Split-Ring Resonators. *Hand, T. H.*, +, *LAWP 2009 262-265*
Design and Analysis of Three-Dimensionalized ELC Metamaterial Unit Cell. *Sajuyigbe, S.*, +, *LAWP 2009 1268-1271*
Enhanced-Gain Microstrip Antenna Using Engineered Magnetic Superstrates. *Attia, H.*, +, *LAWP 2009 1198-1201*

Magnetic resonance

Mode-Based Analysis of Resonant Characteristics for Near-Field Coupled Small Antennas. *Tak, Y.*, +, *LAWP 2009 1238-1241*
UHF Propagation in the Magnetic Resonance Bore. *Black, J. A.*, +, *LAWP 2009 869-871*

Markov processes

Characterization and Modeling of Dynamic On-Body Propagation at 4.5 GHz. *Zhen, B.*, +, *LAWP 2009 1263-1267*

Masers

Hybrid Integration of a Bowtie Slot Antenna and a Quantum Dot Mode-Locked Laser. *Kim, J. H.*, +, *LAWP 2009 1337-1340*

Matrix algebra

An Interpolation Algorithm to Reduce the Reduced Matrix Fill-Time in CBFM. *Ogucu, G.*, +, *LAWP 2009 457-460*
Design of Decoupling Networks for Circulant Symmetric Antenna Arrays. *Coetzee, J. C.*, +, *LAWP 2009 291-294*
Echo-Cancellation Technique With Recursive Data in Nonanechoic Test Sites. *Moon, J.-I.*, +, *LAWP 2009 558-560*
Efficient Generation of Method of Moments Matrices Using Equivalent Dipole-Moment Method. *Yuan, J.*, +, *LAWP 2009 716-719*

Maxwell equations

A Further Study on the Use of the Alternating-Direction Implicit Scheme for the Finite-Element Time-Domain Method. *Du, L.*, +, *LAWP 2009 775-778*
Analysis of Dielectric Resonator Antenna Array by Using Unconditionally Stable Pseudospectral Time-Domain Method. *Zheng, H.-X.*, +, *LAWP 2009 344-347*
Analysis of Simplified SB-ADI Scheme for Two-Dimensional Maxwell's Equations. *Kong, K.-B.*, +, *LAWP 2009 1002-1005*
Improved-Accuracy Source Reconstruction on Arbitrary 3-D Surfaces. *Araque Quijano, J. L.*, +, *LAWP 2009 1046-1049*

Measurement systems

Analysis of Correlated Shadow Fading in Dual-Link Indoor Radio Wave Propagation. *Poutanen, J.*, +, *LAWP 2009 1190-1193*

Measurement uncertainty

Experimental Setup for the Characterization of Field Probes Performance in Presence of Digitally Modulated Radio Signals. *Trincherio, D.*, +, *LAWP 2009 224-227*

Media

Difficulties in Recognizing Ill-Posed Electromagnetic Problems Involving Wrong Effective Models of Media. *Bozza, G.*, +, *LAWP 2009 1283-1287*

Medical image processing

Microwave Biomedical Imaging Using the Multiplicative Regularized Gauss Newton Inversion. *Mojabi, P.*, +, *LAWP 2009 645-648*

Mesh generation

Analysis of ELF Propagation Along the Earth Surface Using the FDTD Model Based on the Spherical Triangle Meshing. *Wang, Y.*, +, *LAWP 2009 1017-1020*

Metallic thin films

Design of Sputter-Deposited Multilayer Thin Films Planar Inverted-F Antenna for Mobile Terminals. *Park, B.-S.*, +, *LAWP 2009 1143-1145*

Metals

Far-Field Radiation Patterns of Terahertz Wire Waveguides. *Liang, H.*, +, *LAWP 2009 1272-1274*

Hard Surfaces to Reduce Blockage in Thick Cylinders. *Rajo-Iglesias, E.*, +, *LAWP 2009 1402-1405*

Metamaterials

A Broadband Dual-Mode Monopole Antenna Using NRI-TL Metamaterial Loading. *Antonides, M. A.*, +, *LAWP 2009 258-261*

A Compact Transmission-Line Metamaterial Antenna With Extended Bandwidth. *Zhu, J.*, +, *LAWP 2009 295-298*

A Novel High-Directivity Microstrip Patch Antenna Based on Zero-Index Metamaterial. *Zhou, H.*, +, *LAWP 2009 538-541*

A Physical Explanation of Angle-Independent Reflection and Transmission Properties of Metafilms/Metasurfaces. *Gordon, J. A.*, +, *LAWP 2009 1127-1130*

Confirmation of Zero-N Behavior in a High Gain Grid Structure at Millimeter-Wave Frequencies. *Franson, S. J.*, +, *LAWP 2009 387-390*

Controllable Magnetic Metamaterial Using Digitally Addressable Split-Ring Resonators. *Hand, T. H.*, +, *LAWP 2009 262-265*

Demonstration of Impedance Matching Using a mu-Negative (MNG) Metamaterial. *Greeger, R. B.*, +, *LAWP 2009 92-95*

Design and Analysis of Three-Dimensionalized ELC Metamaterial Unit Cell. *Sajuyigbe, S.*, +, *LAWP 2009 1268-1271*

Design and Experimental Verification of a 3D Magnetic EZ Antenna at 300 MHz. *Ziolkowski, R. W.*, +, *LAWP 2009 989-993*

Difficulties in Recognizing Ill-Posed Electromagnetic Problems Involving Wrong Effective Models of Media. *Bozza, G.*, +, *LAWP 2009 1283-1287*

Dual-Band Full-Space Scanning Leaky-Wave Antenna Based on Ferrite-Loaded Open Waveguide. *Kodera, T.*, +, *LAWP 2009 1202-1205*

Duality and Superposition in Split-Ring-Resonator-Loaded Planar Transmission Lines. *Carbonell, J.*, +, *LAWP 2009 886-889*

Invisibility Cloaks Modeled by Anisotropic Metamaterials Based on Inductor-Capacitor Networks. *Liu, X.*, +, *LAWP 2009 1154-1157*

Local Metamaterial-Based Waveguides in Gaps Between Parallel Metal Plates. *Kildal, P.-S.*, +, *LAWP 2009 84-87*

Millimeter-Wave Left-Handed Extraordinary Transmission Metamaterial Demultiplexer. *Navarro-Cia, M.*, +, *LAWP 2009 212-215*

Modified TM_{1020} Mode of a Rectangular Patch Antenna Partially Loaded With Metamaterial for Dual-Band Applications. *Xiong, J.*, +, *LAWP 2009 1006-1009*

Performance Improvement of a Wideband MIMO System by Using Two-Port RLWA. *Piazza, D.*, +, *LAWP 2009 830-834*

Waveguides Composed of Metafilms/Metasurfaces: The Two-Dimensional Equivalent of Metamaterials. *Holloway, C. L.*, +, *LAWP 2009 525-529*

Method of moments

Analysis of a Traveling-Wave Waveguide Array With Narrow-Wall Slots Using Higher Order Basis Functions in Method of Moments. *Zhao, X.-W.*, +, *LAWP 2009 1390-1393*

A Hermite Inter/Extrapolation Scheme for MoM Matrices Over a Frequency Band. *Li, W.-D.*, +, *LAWP 2009 782-785*

A Modified Planar Quasi-Yagi Antenna for Wireless Communication Applications. *Gorbachev, A. P.*, +, *LAWP 2009 1091-1093*

A Simple Strip Model in the Volume-Surface Integral Equation for Analysis of Arbitrary Probe-Fed Conformal Microstrip Antennas. *He, M.*, +, *LAWP 2009 530-533*

An Interpolation Algorithm to Reduce the Reduced Matrix Fill-Time in CBFM. *Ogucu, G.*, +, *LAWP 2009 457-460*

Coupling Between Waveguide-Fed Planar Slot Arrays. *Rengarajan, S. R.*, +, *LAWP 2009 429-432*

Design and Realization of a Linearly Polarized Eleven Feed for 1 10 GHz. *Yang, J.*, +, *LAWP 2009 64-68*

Drift Denoising of Experimental TE Measurements for Imaging 2D PEC Cylinders. *Hassan, A. M.*, +, *LAWP 2009 1218-1222*

Efficient Generation of Method of Moments Matrices Using Equivalent Dipole-Moment Method. *Yuan, J.*, +, *LAWP 2009 716-719*

Efficient Near-Field Interpolation of Mixed-Potential Green's Functions in Layered Media. *Valerio, G.*, +, *LAWP 2009 674-677*

Evaluation of Green's Functions of Rectangular Cavities Around Resonant Frequencies in the Method of Moments. *Lu, M.*, +, *LAWP 2009 204-208*

Evaluation of the Radiation Efficiency and the Noise Temperature of Low-Loss Antennas. *Maaskant, R.*, +, *LAWP 2009 1166-1170*

Excitation of a Periodic Microstrip Line by an Aperiodic Delta-Gap Source. *Rodriguez-Berral, R.*, +, *LAWP 2009 641-644*

Higher Order FEM-MoM Domain Decomposition for 3-D Electromagnetic Analysis. *Ilic, M. M.*, +, *LAWP 2009 970-973*

Scattering by DB Spheres. *Sihvola, A.*, +, *LAWP 2009 542-545*

Strong Singularity Reduction for Curved Patches for the Integral Equations of Electromagnetics. *Weile, D. S.*, +, *LAWP 2009 1370-1373*

Treatment of Singular Integrals on Generalized Curvilinear Parametric Quadrilaterals in Higher Order Method of Moments. *Ding, W.*, +, *LAWP 2009 1310-1313*

Microfabrication

Design and Fabrication of a Ternary Switch for MEMS-Controlled Reflectarray Elements. *Wu, B.*, +, *LAWP 2009 998-1001*

Microstrip

A Broadband Planar Monopulse Antenna Array of C-Band. *Yu, Z.-W.*, +, *LAWP 2009 1325-1328*

A Millimeter-Wave Microstrip Antenna Array on Ultra-Flexible Micromachined Polydimethylsiloxane (PDMS) Polymer. *Hage-Ali, S.*, +, *LAWP 2009 1306-1309*

Compact Broadband Slotted Rectangular Microstrip Antenna. *Deshmukh, A. A.*, +, *LAWP 2009 1410-1413*

Compact UWB Planar Monopole Antenna. *Naser-Moghadasi, M.*, +, *LAWP 2009 1382-1385*

Design of a Tapered Balun for Broadband Arrays With Closely Spaced Elements. *Xia, T.*, +, *LAWP 2009 1291-1294*

High-Efficient and High-Gain Superstrate Antenna for 60-GHz Indoor Communication. *Vettikalladi, H.*, +, *LAWP 2009 1422-1425*

Improved Cross-Polarization Characteristics of Circular Microstrip Antenna Employing Arc-Shaped Defected Ground Structure (DGS). *Guha, D.*, +, *LAWP 2009 1367-1369*

Microstrip antenna arrays

A Circularly Polarized Element for Reflectarray Antennas. *Albooyeh, M.*, +, *LAWP 2009 319-322*

A Ka-Band Dual-Frequency Radiator for Array Applications. *Arneri, E.*, +, *LAWP 2009 894-897*

A Low-Profile Switchable Quadripolarization Diversity Aperture-Coupled Patch Antenna. *Wang, S.-Y.*, +, *LAWP 2009 522-524*

A Novel Microstrip Rectangular-Patch/Ring-Combination Reflectarray Element and Its Application. *Li, Q.-Y.*, +, *LAWP 2009 1119-1122*

A Reflectarray Antenna Based on Multiscale Phase-Shifting Cell Concept. *Salti, H.*, +, *LAWP 2009 363-366*

An Efficient Technique for the Analysis of Large Multilayered Printed Arrays. *De Vita, P.*, +, *LAWP 2009 104-107*

An Interpolation Algorithm to Reduce the Reduced Matrix Fill-Time in CBFM. *Ogucu, G.*, +, *LAWP 2009 457-460*

Broadband Slot-Type Bruce Array Fed by a Microstrip-to-Slotline T-Junction. *Chen, S.-Y.*, +, *LAWP 2009 116-119*

Design and Implementation of a Compact 6-Port Antenna. *Chiu, C.-Y.*, +, *LAWP 2009 767-770*

Efficient, Low-Cost Integrated Waveguide-Fed Planar Antenna Array for Ku-Band Applications. *Borji, A.*, +, *LAWP 2009 336-339*

Integration of Grid Array Antenna in Chip Package for Highly Integrated 60-GHz Radios. *Sun, M.*, +, *LAWP 2009 1364-1366*

Millimeter-Wave Waveguide Slot-Array Antenna Covered by a Dielectric Slab and Arrayed Patches. *Hwang, J.-H.*, +, *LAWP 2009 1050-1053*

- Reciprocity Considerations in Microstrip Reflectarrays. *Rengarajan, S. R.*, +, *LAWP 2009 1206-1209*
- Sectoral Conical Beam Former for a 2×2 Array Antenna. *Kim, J. H.*, +, *LAWP 2009 712-715*
- Substrate-Integrated Waveguide Ku-Band Cavity-Backed 2×2 Microstrip Patch Array Antenna. *Awida, M. H.*, +, *LAWP 2009 1054-1056*
- Wideband Planar Patch Antenna Array on Cylindrical Surface. *Abbaspour, M.*, +, *LAWP 2009 394-397*

Microstrip antennas

- A Broadband Microstrip Antenna With Improved Gain for Noncontact Vital Sign Radar Detection. *Park, Z.*, +, *LAWP 2009 939-942*
- A Compact Planar MIMO Antenna System of Four Elements With Similar Radiation Characteristics and Isolation Structure. *Li, H.*, +, *LAWP 2009 1107-1110*
- A Compact Transmission-Line Metamaterial Antenna With Extended Bandwidth. *Zhu, J.*, +, *LAWP 2009 295-298*
- A Miniature RFID Tag Antenna Design for Metallic Objects Application. *Chen, S.-L.*, +, *LAWP 2009 1043-1045*
- A Miniaturized, Dual-Band, Circularly Polarized Microstrip Antenna for Installation Into Satellite Mobile Phones. *Lee, H. R.*, +, *LAWP 2009 823-825*
- A Modified Planar Quasi-Yagi Antenna for Wireless Communication Applications. *Gorbachev, A. P.*, +, *LAWP 2009 1091-1093*
- A Monopolar Quad-Band Antenna Based on a Hilbert Self-Affine Prefractal Geometry. *Azaro, R.*, +, *LAWP 2009 177-180*
- A New Printed Antenna for Multiband Wireless Applications. *Lee, Y.-C.*, +, *LAWP 2009 402-405*
- A New Printed Slot Loop Antenna With Tunable Strips for 2.4- and 5-GHz Wireless Applications. *Lee, Y.-C.*, +, *LAWP 2009 356-358*
- A Novel Compact Quad-Band Narrow Strip-Loaded Printed Monopole Antenna. *Chen, C.-C.*, +, *LAWP 2009 974-976*
- A Novel High-Directivity Microstrip Patch Antenna Based on Zero-Index Metamaterial. *Zhou, H.*, +, *LAWP 2009 538-541*
- A Novel Reduced-Size Edge-Shorted Patch Antenna for UHF Band Applications. *Chen, I.-F.*, +, *LAWP 2009 475-477*
- A Simple Strip Model in the Volume-Surface Integral Equation for Analysis of Arbitrary Probe-Fed Conformal Microstrip Antennas. *He, M.*, +, *LAWP 2009 530-533*
- A Small Printed Quasi-Self-Complementary Antenna for Ultrawideband Systems. *Guo, L.*, +, *LAWP 2009 554-557*
- An Improved Band-Rejection UWB Antenna With Resonant Patches and a Slot. *Jang, J.-W.*, +, *LAWP 2009 299-302*
- An Integrated Approach to RF Antenna-Filter Co-Design. *Zuo, J.*, +, *LAWP 2009 141-144*
- Compact Broadband Slotted Rectangular Microstrip Antenna. *Deshmukh, A. A.*, +, *LAWP 2009 1410-1413*
- Compact Three-Port Integrated-Antenna-Filter Modules. *Lim, E. H.*, +, *LAWP 2009 486-489*
- Compact UWB Planar Monopole Antenna. *Naser-Moghadasi, M.*, +, *LAWP 2009 1382-1385*
- Conformal Asymmetric Meandered Flare (AMF) Antenna for Body-Worn Applications. *Psychoudakis, D.*, +, *LAWP 2009 931-934*
- Conformal Strip-Fed Shaped Cylindrical Dielectric Resonator: Improved Design of a Wideband Wireless Antenna. *Chu, L. C. Y.*, +, *LAWP 2009 482-485*
- Coplanar Waveguide-Fed Rectangular Antenna With an Inverted-L Stub for Ultrawideband Communications. *Lin, W.-P.*, +, *LAWP 2009 228-231*
- Design and Evaluation of a Compact Antenna for Implant-to-Air UWB Communication. *Dissanayake, T.*, +, *LAWP 2009 153-156*
- Design of a Multiband Antenna for Mobile Handset Operations. *Hsieh, H.-W.*, +, *LAWP 2009 200-203*
- Design of a Novel High-Gain Dual-Band Antenna for WLAN Applications. *He, X.*, +, *LAWP 2009 798-801*
- Dual Printed Antenna for Wi-Fi Applications. *Avila-Navarro, E.*, +, *LAWP 2009 596-598*
- Dual-Band EBG Sectoral Antenna Using a Single-Layer FSS for UMTS Application. *Hajj, M.*, +, *LAWP 2009 161-164*
- Dual-Band Probe-Fed Stacked Patch Antenna for GNSS Applications. *Wang, Z.*, +, *LAWP 2009 100-103*
- Dual-Frequency Printed Dipole Loaded With Split Ring Resonators. *Herrera-Martinez, F. J.*, +, *LAWP 2009 137-140*
- Enhanced-Gain Microstrip Antenna Using Engineered Magnetic Superstrates. *Attia, H.*, +, *LAWP 2009 1198-1201*
- Enhancement of Microstrip Monopole Antenna Bandwidth by Using EBG Structures. *Elsheikh, D. N.*, +, *LAWP 2009 959-962*
- Experimental Study of a 2-D Irregular Fractal-Jet Printed Antenna. *Rmili, H.*, +, *LAWP 2009 328-331*
- Flip-Chip Interconnection Effects on 60-GHz Microstrip Antenna Performance. *Felic, G.*, +, *LAWP 2009 283-286*
- High-Efficient and High-Gain Superstrate Antenna for 60-GHz Indoor Communication. *Vetikalladi, H.*, +, *LAWP 2009 1422-1425*
- Improved Cross-Polarization Characteristics of Circular Microstrip Antenna Employing Arc-Shaped Defected Ground Structure (DGS). *Guha, D.*, +, *LAWP 2009 1367-1369*
- Input Impedance and Resonant Frequency of a Printed Dipole With Arbitrary Length Embedded in Stratified Uniaxial Anisotropic Dielectrics. *Braaten, B. D.*, +, *LAWP 2009 806-810*
- Integrated Bluetooth and UWB Antenna. *Yildirim, B. S.*, +, *LAWP 2009 149-152*
- Internal Resistance of Voltage Source by Use of the Finite-Difference Time-Domain Technique. *Lee, A.-K.*, +, *LAWP 2009 1194-1197*
- Investigation Into the Relationship Between Microstrip Patch Width and Efficiency. *Yong, S.*, +, *LAWP 2009 1171-1174*
- Investigation of a Novel Wideband Feeding Technique for Dielectric Ring Resonator Antennas. *Chang, W.*, +, *LAWP 2009 348-351*
- Low-Profile Integrated Microstrip Antenna for GPS-DSRC Application. *Rafi, G. Z.*, +, *LAWP 2009 44-48*
- Meshed Patch Antennas Integrated on Solar Cells. *Turpin, T. W.*, +, *LAWP 2009 693-696*
- Method of Suppressing the Side Lobe of a Tapered Short Leaky Wave Antenna. *Wu, J.-W.*, +, *LAWP 2009 1146-1149*
- Miniaturized Microstrip-Fed Tapered-Slot Antenna With Ultrawideband Performance. *Abbosh, A. M.*, +, *LAWP 2009 690-692*
- Modification of the Radiation Patterns of Higher Order Modes of Triangular Printed Antennas by EBG Ground Planes. *Siakavara, K.*, +, *LAWP 2009 124-128*
- Modified TM_{020} Mode of a Rectangular Patch Antenna Partially Loaded With Metamaterial for Dual-Band Applications. *Xiong, J.*, +, *LAWP 2009 1006-1009*
- New Development Around M-PRS Antennas for Sectoral Coverage of Telecommunication Networks With Dual Polarization. *Hajj, M.*, +, *LAWP 2009 670-673*
- Novel Planar UWB Monopole Antenna With Triple Band-Notched Characteristics. *Li, W. T.*, +, *LAWP 2009 1094-1098*
- Performance of a Novel Ψ -Shape Microstrip Patch Antenna With Wide Bandwidth. *Sharma, S. K.*, +, *LAWP 2009 468-471*
- Planar High-Gain WLAN PCB Antenna. *Zelenchuk, D. E.*, +, *LAWP 2009 1314-1316*
- Planar Substrate Integrated Waveguide Cavity-Backed Antenna. *Bohorquez, J. C.*, +, *LAWP 2009 1139-1142*
- Planar, Compact Dual-Band Antenna for Wireless LAN Applications. *Midrio, M.*, +, *LAWP 2009 1234-1237*
- Printed Broadband Monopole Antenna for WLAN/WiMAX Applications. *Chen, I.-F.*, +, *LAWP 2009 472-474*
- Reduction of Patch Antenna Coupling by Using a Compact EBG Formed by Shorted Strips With Interlocked Branch-Stub. *Caminita, F.*, +, *LAWP 2009 811-814*
- Robust Microstrip-to-Waveguide Transitions for Millimeter-Wave Radar Sensor Applications. *Boukari, B.*, +, *LAWP 2009 759-762*
- Signal Flow Graph for a Probe-Fed Microstrip Patch Antenna. *Ruyle, J. E.*, +, *LAWP 2009 935-938*
- Small Square Monopole Antenna for UWB Applications With Variable Frequency Band-Notch Function. *Ojaroudi, M.*, +, *LAWP 2009 1061-1064*
- Small Square Monopole Antenna With Inverted T-Shaped Notch in the Ground Plane for UWB Application. *Ojaroudi, M.*, +, *LAWP 2009 728-731*
- Tapered Meander Line Antenna for Maximum Efficiency and Minimal Environmental Impact. *Galehdar, A.*, +, *LAWP 2009 244-247*
- The Analysis of a Reconfigurable Antenna With a Rotating Feed Using Graph Models. *Costantine, J.*, +, *LAWP 2009 943-946*
- The Circulator and Antenna as a Single Integrated System. *Adams, R. S.*, +, *LAWP 2009 165-168*
- Ultrawide Bandwidth Umbrella-Shaped Microstrip Monopole Antenna Using Spiral Artificial Magnetic Conductor (SAMC). *Elsheikh, D. N.*, +, *LAWP 2009 1255-1258*
- Wideband Folded Feed L-Slot Folded Patch Antenna. *Lau, K. L.*, +, *LAWP 2009 340-343*
- Wideband Printed Microstrip Antenna for Wireless Communications. *Sarin, V. P.*, +, *LAWP 2009 779-781*

- Wideband Single-Feed Circularly Polarized Patch Antenna With Conical Radiation Pattern. *Guo, Y.-X.*, +, *LAWP 2009 924-926*
- Microstrip lines**
- A Compact Dual-Band Dielectric Resonator Antenna Using a Parasitic Slot. *Chen, H.-M.*, +, *LAWP 2009 173-176*
- Efficient, Low-Cost Integrated Waveguide-Fed Planar Antenna Array for Ku-Band Applications. *Borji, A.*, +, *LAWP 2009 336-339*
- Excitation of a Periodic Microstrip Line by an Aperiodic Delta-Gap Source. *Rodriguez-Berral, R.*, +, *LAWP 2009 641-644*
- Local Metamaterial-Based Waveguides in Gaps Between Parallel Metal Plates. *Kildal, P.-S.*, +, *LAWP 2009 84-87*
- Planar Substrate Integrated Waveguide Cavity-Backed Antenna. *Bohorquez, J. C.*, +, *LAWP 2009 1139-1142*
- Microstrip transitions**
- Broadband Slot-Type Bruce Array Fed by a Microstrip-to-Slotline T-Junction. *Chen, S.-Y.*, +, *LAWP 2009 116-119*
- Robust Microstrip-to-Waveguide Transitions for Millimeter-Wave Radar Sensor Applications. *Boukari, B.*, +, *LAWP 2009 759-762*
- Microswitches**
- Design and Fabrication of a Ternary Switch for MEMS-Controlled Reflectarray Elements. *Wu, B.*, +, *LAWP 2009 998-1001*
- MEMS-Switched, Frequency-Tunable Hybrid Slot/PIFA Antenna. *Liu, Z.*, +, *LAWP 2009 311-314*
- Switched Beam Antenna Based on RF MEMS SPDT Switch on Quartz Substrate. *Cheng, S.*, +, *LAWP 2009 383-386*
- Microwave antenna arrays**
- MIMO Channel Capacity With Polarization Diversity in Arched Tunnels. *Molina-Garcia-Pardo, J.-M.*, +, *LAWP 2009 1186-1189*
- Novel Dual Circularly Polarized Radiating Element for Spherical Phased-Array Application. *Kumar, C.*, +, *LAWP 2009 826-829*
- Quad-Band MIMO Antenna Array for Portable Wireless Communications Terminals. *Bhatti, R. A.*, +, *LAWP 2009 129-132*
- Twin Orthogonally Polarized UWB Aperture Antenna Elements With Optimized Profile Feed for Optimal Adaptation. *Martinez-Fernandez, J.*, +, *LAWP 2009 517-521*
- Microwave antennas**
- A Dual-Mode Quadrature-Fed Wideband Circularly Polarized Dielectric Resonator Antenna. *Li, B.*, +, *LAWP 2009 1036-1038*
- A New Printed Slot Loop Antenna With Tunable Strips for 2.4- and 5-GHz Wireless Applications. *Lee, Y.-C.*, +, *LAWP 2009 356-358*
- A Novel Broadband Plate-Loaded Planar Monopole Antenna. *Mazinani, S. M.*, +, *LAWP 2009 1123-1126*
- A Novel Modified Multiband Planar Inverted-F Antenna. *Yu, Y.-C.*, +, *LAWP 2009 189-192*
- A Truncated Conical Dielectric Resonator Antenna for Body-Area Network Applications. *Almpanis, G.*, +, *LAWP 2009 279-282*
- An HIS-Based Spiral Antenna for Pattern Reconfigurable Applications. *Deo, P.*, +, *LAWP 2009 196-199*
- Compact Tapered Slot UWB Antenna With WLAN Band Rejection. *Medeiros, C. R.*, +, *LAWP 2009 661-664*
- Design and Evaluation of a Compact Antenna for Implant-to-Air UWB Communication. *Dissanayake, T.*, +, *LAWP 2009 153-156*
- Design and Realization of a Linearly Polarized Eleven Feed for 1-10 GHz. *Yang, J.*, +, *LAWP 2009 64-68*
- Design of Resistive Loading Vivaldi Antenna. *Deng, C.*, +, *LAWP 2009 240-243*
- Dual-Band Spline-Shaped PCB Antenna for Wi-Fi Applications. *Lizzi, L.*, +, *LAWP 2009 616-619*
- Echo-Cancellation Technique With Recursive Data in Nonanechoic Test Sites. *Moon, J.-I.*, +, *LAWP 2009 558-560*
- Investigation of a Novel Wideband Feeding Technique for Dielectric Ring Resonator Antennas. *Chang, W.*, +, *LAWP 2009 348-351*
- Microwave S-Parameter Characterization of an Antenna-Coupled Catadioptric Lens. *Banik, B.*, +, *LAWP 2009 1299-1301*
- Multibeam Antenna for Telecommunications Networks Using Cylindrical EBG Structure. *Chreim, H.*, +, *LAWP 2009 665-669*
- Small Square Monopole Antenna for UWB Applications With Variable Frequency Band-Notch Function. *Ojaroudi, M.*, +, *LAWP 2009 1061-1064*
- Wideband Rectangular Dielectric Resonator Antenna With a Concave Ground Plane. *Liang, X.-L.*, +, *LAWP 2009 367-370*
- Microwave imaging**
- 3D Image Reconstruction in Microwave Tomography Using an Efficient FDTD Model. *Fhager, A.*, +, *LAWP 2009 1353-1356*
- Microwave S-Parameter Characterization of an Antenna-Coupled Catadioptric Lens. *Banik, B.*, +, *LAWP 2009 1299-1301*
- Microwave Biomedical Imaging Using the Multiplicative Regularized Gauss Newton Inversion. *Mojabi, P.*, +, *LAWP 2009 645-648*
- Microwave Radar-Based Breast Cancer Detection: Imaging in Inhomogeneous Breast Phantoms. *Klemm, M.*, +, *LAWP 2009 1349-1352*
- Spectral Difference Between Microwave Radar and Microwave-Induced Thermoacoustic Signals. *Zhu, K. G.*, +, *LAWP 2009 1259-1262*
- Microwave materials**
- A Novel High-Directivity Microstrip Patch Antenna Based on Zero-Index Metamaterial. *Zhou, H.*, +, *LAWP 2009 538-541*
- A Thin X-Band Microwave Absorber Using a Center Shorted Spiral Medium. *Liu, Y.*, +, *LAWP 2009 271-274*
- Automotive Radome Design Reflection Reduction of Stratified Media. *Fitzek, F.*, +, *LAWP 2009 1076-1079*
- Microwave photonics**
- Millimeter-Wave Left-Handed Extraordinary Transmission Metamaterial Demultiplexer. *Navarro-Cia, M.*, +, *LAWP 2009 212-215*
- Planar Surface-Wave Sources and Metallic Grating Lenses for Controlled Guided-Wave Propagation. *Podilchak, S. K.*, +, *LAWP 2009 371-374*
- Microwave switches**
- Switched Beam Antenna Based on RF MEMS SPDT Switch on Quartz Substrate. *Cheng, S.*, +, *LAWP 2009 383-386*
- Microwave theory and techniques**
- 3D Image Reconstruction in Microwave Tomography Using an Efficient FDTD Model. *Fhager, A.*, +, *LAWP 2009 1353-1356*
- Microwave S-Parameter Characterization of an Antenna-Coupled Catadioptric Lens. *Banik, B.*, +, *LAWP 2009 1299-1301*
- Spectral Difference Between Microwave Radar and Microwave-Induced Thermoacoustic Signals. *Zhu, K. G.*, +, *LAWP 2009 1259-1262*
- Mie scattering**
- Scattering by DB Spheres. *Sihvola, A.*, +, *LAWP 2009 542-545*
- Military communication**
- Path-Loss and Time-Dispersion Parameters of UWB Signals in a Military Airplane. *Spiliotopoulos, C. G.*, +, *LAWP 2009 790-793*
- Military radar**
- Near-Space Wide-Swath Radar Imaging With Multiaperture Antenna. *Wang, W.-Q.*, +, *LAWP 2009 461-464*
- Millimeter wave antenna arrays**
- 94-GHz Log-Periodic Antenna on GaAs Substrate Using Air-Bridge Structure. *Baek, Y.-H.*, +, *LAWP 2009 909-911*
- A Ka-Band Dual-Frequency Radiator for Array Applications. *Arneri, E.*, +, *LAWP 2009 894-897*
- High-Resolution Probes for Near-Field Measurements of Reflectarray Antennas. *Dieter, S.*, +, *LAWP 2009 157-160*
- Measurement-Based Mutual Information Analysis of MIMO Antenna Selection in the 60-GHz Band. *Ranvier, S.*, +, *LAWP 2009 686-689*
- Millimeter-Wave Waveguide Slot-Array Antenna Covered by a Dielectric Slab and Arrayed Patches. *Hwang, J.-H.*, +, *LAWP 2009 1050-1053*
- Novel Antenna Concept for Compact Millimeter-Wave Automotive Radar Sensors. *Beer, S.*, +, *LAWP 2009 771-774*
- Study of Folded Reflector Multibeam Antenna With Dielectric Rods as Primary Source. *Nguyen, T. P.*, +, *LAWP 2009 786-789*
- Millimeter wave antennas**
- A Compact Planar MIMO Antenna System of Four Elements With Similar Radiation Characteristics and Isolation Structure. *Li, H.*, +, *LAWP 2009 1107-1110*
- Confirmation of Zero-N Behavior in a High Gain Grid Structure at Millimeter-Wave Frequencies. *Franson, S. J.*, +, *LAWP 2009 387-390*
- Flip-Chip Interconnection Effects on 60-GHz Microstrip Antenna Performance. *Felic, G.*, +, *LAWP 2009 283-286*
- Robust Microstrip-to-Waveguide Transitions for Millimeter-Wave Radar Sensor Applications. *Boukari, B.*, +, *LAWP 2009 759-762*
- Millimeterwave devices**
- Automotive Radome Design Reflection Reduction of Stratified Media. *Fitzek, F.*, +, *LAWP 2009 1076-1079*
- Integration of Single-Mode Photonic Crystal Clad Waveguides With Monolithically Constructed Ceramic Subsystems. *Brakora, K. F.*, +, *LAWP 2009 433-436*
- Millimeter-Wave Left-Handed Extraordinary Transmission Metamaterial Demultiplexer. *Navarro-Cia, M.*, +, *LAWP 2009 212-215*
- Millimeter wave propagation**
- Automotive Radome Design Reflection Reduction of Stratified Media. *Fitzek, F.*, +, *LAWP 2009 1076-1079*

- Millimeter-Wave Propagation in Indoor Corridors. *Geng, S.*, +, *LAWP 2009 1242-1245*
- Millimeter waves**
- Proximity Effects of Plastic Laptop Covers on Radiation Characteristics of 60-GHz Antennas. *Amadjikpe, A. L.*, +, *LAWP 2009 763-766*
- MIMIC**
- 94-GHz Log-Periodic Antenna on GaAs Substrate Using Air-Bridge Structure. *Baek, Y.-H.*, +, *LAWP 2009 909-911*
- MIMO**
- A 3D-to-2D Transform Algorithm for Incorporating 3D Antenna Radiation Patterns in SCM. *Kanj, H.*, +, *LAWP 2009 815-818*
- Compact Reconfigurable Antenna Array for Adaptive MIMO Systems. *Li, Z.*, +, *LAWP 2009 1317-1320*
- A Compact Planar MIMO Antenna System of Four Elements With Similar Radiation Characteristics and Isolation Structure. *Li, H.*, +, *LAWP 2009 1107-1110*
- A Dual-Frequency Omnidirectional Antenna for Polarization Diversity of MIMO and Wireless Communication Applications. *Ahn, C.-H.*, +, *LAWP 2009 966-969*
- A New Spatial Correlation Formulation of Arbitrary AoA Scenarios. *Hsieh, P.-H.*, +, *LAWP 2009 398-401*
- Analysis of Correlated Shadow Fading in Dual-Link Indoor Radio Wave Propagation. *Poutanen, J.*, +, *LAWP 2009 1190-1193*
- Derivation and Analysis of Spatial Correlation for 2×2 MIMO System. *ManhTuan, D.*, +, *LAWP 2009 409-413*
- Deterministic and Statistical-Based Channel Models in the MIMO Link Evaluation. *Ali, S. M.*, +, *LAWP 2009 927-930*
- Diversity Gain and MIMO Capacity for Nonisotropic Environments Using a Reverberation Chamber. *Valenzuela-Valdes, J. F.*, +, *LAWP 2009 112-115*
- Effect of Pedestrian Movement on MIMO-OFDM Channel Capacity in an Indoor Environment. *Das Gupta, J. D.*, +, *LAWP 2009 682-685*
- Employing EBG Structures in Multiantenna Systems for Improving Isolation and Diversity Gain. *Payandehjoo, K.*, +, *LAWP 2009 1162-1165*
- Influence of Antenna Characteristics on MIMO Systems With Compact Monopole Arrays. *Hui, H. T.*, +, *LAWP 2009 133-136*
- Measurement-Based Mutual Information Analysis of MIMO Antenna Selection in the 60-GHz Band. *Ranvier, S.*, +, *LAWP 2009 686-689*
- MIMO Channel Capacity With Polarization Diversity in Arched Tunnels. *Molina-Garcia-Pardo, J.-M.*, +, *LAWP 2009 1186-1189*
- Performance Improvement of a Wideband MIMO System by Using Two-Port RLWA. *Piazza, D.*, +, *LAWP 2009 830-834*
- Quad-Band MIMO Antenna Array for Portable Wireless Communications Terminals. *Bhatti, R. A.*, +, *LAWP 2009 129-132*
- Ultrawideband MIMO/Diversity Antennas With a Tree-Like Structure to Enhance Wideband Isolation. *Zhang, S.*, +, *LAWP 2009 1279-1282*
- Uncoupled Impedance Matching for Capacity Maximization of Compact MIMO Arrays. *Tsen, W. F.*, +, *LAWP 2009 1295-1298*
- Mining**
- An Experiment Study of the Propagation of Radio Waves in a Scaled Model of Long-Wall Coal Mining Tunnels. *Han, G.*, +, *LAWP 2009 502-504*
- Mobile antennas**
- A DVBH/GSM/UMTS Planar Antenna for Multimode Wireless Devices. *Lizzi, L.*, +, *LAWP 2009 568-571*
- A Low-Profile Branched Monopole Laptop Reconfigurable Multiband Antenna for Wireless Applications. *Zhang, C.*, +, *LAWP 2009 216-219*
- A Miniaturized, Dual-Band, Circularly Polarized Microstrip Antenna for Installation Into Satellite Mobile Phones. *Lee, H. R.*, +, *LAWP 2009 823-825*
- A Novel Compact Quad-Band Narrow Strip-Loaded Printed Monopole Antenna. *Chen, C.-C.*, +, *LAWP 2009 974-976*
- Automotive Radome Design Reflection Reduction of Stratified Media. *Fitzek, F.*, +, *LAWP 2009 1076-1079*
- Compact Multiband Folded 3-D Monopole Antenna. *Kanj, H.*, +, *LAWP 2009 185-188*
- Conformal Asymmetric Meandered Flare (AMF) Antenna for Body-Worn Applications. *Psychoudakis, D.*, +, *LAWP 2009 931-934*
- Design of a Multiband Antenna for Mobile Handset Operations. *Hsieh, H.-W.*, +, *LAWP 2009 200-203*
- Design of Sputter-Deposited Multilayer Thin Films Planar Inverted-F Antenna for Mobile Terminals. *Park, B.-S.*, +, *LAWP 2009 1143-1145*
- DVB-H Antenna Design Using Folder-Type Chassis and Coupling Element on a Ferrite. *Rhyu, H.*, +, *LAWP 2009 453-456*
- Near-Field Control of Handset Antennas Based on Inverted-Top Wavetraps: Focus on Hearing-Aid Compatibility. *Holopainen, J.*, +, *LAWP 2009 592-595*
- Planar Hexa-Band Inverted-F Antenna for Portable Device Applications. *Chiu, C.-W.*, +, *LAWP 2009 1099-1102*
- Quasi-Unidirectional Radiation Pattern of Monopole Coupled Loop Antenna. *Abdallah, M.*, +, *LAWP 2009 732-735*
- Mobile communication**
- A Novel Pattern Reconfigurable Antenna Array for Diversity Systems. *Cai, Y.*, +, *LAWP 2009 1227-1230*
- Quasi-Unidirectional Radiation Pattern of Monopole Coupled Loop Antenna. *Abdallah, M.*, +, *LAWP 2009 732-735*
- Mobile handsets**
- A Faster Means to Estimate SAR Values for Mobile Phone Applications. *Chen, I.-F.*, +, *LAWP 2009 994-997*
- Compact Multiband Folded 3-D Monopole Antenna. *Kanj, H.*, +, *LAWP 2009 185-188*
- Design of a Multiband Antenna for Mobile Handset Operations. *Hsieh, H.-W.*, +, *LAWP 2009 200-203*
- DVB-H Antenna Design Using Folder-Type Chassis and Coupling Element on a Ferrite. *Rhyu, H.*, +, *LAWP 2009 453-456*
- Mobile radio**
- A Compact Multiband Antenna Based on DNG ZOR for Wireless Mobile System. *Ji, J. K.*, +, *LAWP 2009 920-923*
- A Hybrid Prefractal Three-Band Antenna for Multistandard Mobile Wireless Applications. *Azaro, R.*, +, *LAWP 2009 905-908*
- Design of Sputter-Deposited Multilayer Thin Films Planar Inverted-F Antenna for Mobile Terminals. *Park, B.-S.*, +, *LAWP 2009 1143-1145*
- Novel Broadband Planar Reflectarray With Parasitic Dipoles for Wireless Communication Applications. *Li, L.*, +, *LAWP 2009 881-885*
- Path-Loss and Time-Dispersion Parameters of UWB Signals in a Military Airplane. *Spiliotopoulos, C. G.*, +, *LAWP 2009 790-793*
- Modal analysis**
- A Design Strategy for Large Dielectric Radome Compensated Joints. *Virone, G.*, +, *LAWP 2009 546-549*
- Mode matching**
- A Physical Explanation of Angle-Independent Reflection and Transmission Properties of Metafilms/Metasurfaces. *Gordon, J. A.*, +, *LAWP 2009 1127-1130*
- Electromagnetic Scattering From Multiple Slant Strips. *Ock, J. S.*, +, *LAWP 2009 40-43*
- Modulation**
- Experimental Setup for the Characterization of Field Probes Performance in Presence of Digitally Modulated Radio Signals. *Trincherio, D.*, +, *LAWP 2009 224-227*
- Tradeoff of Transmitted Power in Time-Reversed Impulse Radio Ultrawideband Communications. *Liou, X.*, +, *LAWP 2009 1426-1429*
- Monopole antenna arrays**
- Design and Simulation of a Miniature Thick-Screen Frequency Selective Surface Radome. *Lin, B.-Q.*, +, *LAWP 2009 1065-1068*
- Influence of Antenna Characteristics on MIMO Systems With Compact Monopole Arrays. *Hui, H. T.*, +, *LAWP 2009 133-136*
- Pattern and Polarization Diversity Antenna With High Isolation for Portable Wireless Devices. *Wang, X.*, +, *LAWP 2009 209-211*
- Two-Dimensional Subwavelength-Focused Imaging Using a Near-Field End-Fire Antenna-Array Probe. *Markley, L.*, +, *LAWP 2009 1025-1028*
- Monopole antennas**
- A Broadband Dual-Mode Monopole Antenna Using NRI-TL Metamaterial Loading. *Antoniades, M. A.*, +, *LAWP 2009 258-261*
- A Low Q Electrically Small Magnetic (TE Mode) Dipole. *Best, S. R.*, +, *LAWP 2009 572-575*
- A Low-Profile Branched Monopole Laptop Reconfigurable Multiband Antenna for Wireless Applications. *Zhang, C.*, +, *LAWP 2009 216-219*
- A Monopolar Quad-Band Antenna Based on a Hilbert Self-Affine Prefractal Geometry. *Azaro, R.*, +, *LAWP 2009 177-180*
- A Multifractal Cantor Antenna for Multiband Wireless Applications. *Manimegalai, B.*, +, *LAWP 2009 359-362*
- A Novel Broadband Plate-Loaded Planar Monopole Antenna. *Mazinani, S. M.*, +, *LAWP 2009 1123-1126*
- A Novel Compact Quad-Band Narrow Strip-Loaded Printed Monopole Antenna. *Chen, C.-C.*, +, *LAWP 2009 974-976*
- Antenna Radiation Efficiency Measurement in an Ultrawide Frequency Range. *Miskovsky, P.*, +, *LAWP 2009 72-75*
- Circuit Modeling of a Small Broadband Conical Antenna. *Palud, S.*, +, *LAWP 2009 96-99*
- Compact Multiband Folded 3-D Monopole Antenna. *Kanj, H.*, +, *LAWP 2009 185-188*

- Design of a Multiband Antenna for Mobile Handset Operations. *Hsieh, H.-W.*, +, *LAWP 2009 200-203*
- Design of a Novel High-Gain Dual-Band Antenna for WLAN Applications. *He, X.*, +, *LAWP 2009 798-801*
- Dual-Band Antenna With Fractal-Based Ground Plane for WLAN Applications. *Gemio, J.*, +, *LAWP 2009 748-751*
- Enhancement of Microstrip Monopole Antenna Bandwidth by Using EBG Structures. *Elsheakh, D. N.*, +, *LAWP 2009 959-962*
- Investigation of a Novel Wideband Feeding Technique for Dielectric Ring Resonator Antennas. *Chang, W.*, +, *LAWP 2009 348-351*
- Multiband Dual Spiral Stripline-Loaded Monopole Antenna. *Nguyen, T. K.*, +, *LAWP 2009 57-59*
- New Pawn-Shaped Dielectric Ring Resonator Loaded Hybrid Monopole Antenna for Improved Ultrawide Bandwidth. *Guha, D.*, +, *LAWP 2009 1178-1181*
- Novel Planar UWB Monopole Antenna With Triple Band-Notched Characteristics. *Li, W. T.*, +, *LAWP 2009 1094-1098*
- Printed Broadband Monopole Antenna for WLAN/WiMAX Applications. *Chen, I.-F.*, +, *LAWP 2009 472-474*
- Quasi-Unidirectional Radiation Pattern of Monopole Coupled Loop Antenna. *Abdallah, M.*, +, *LAWP 2009 732-735*
- Resonator-Loaded Dual-Band Monopole for Universal WLAN. *Gemio, J.*, +, *LAWP 2009 736-739*
- Small Square Monopole Antenna for UWB Applications With Variable Frequency Band-Notch Function. *Ojaroudi, M.*, +, *LAWP 2009 1061-1064*
- Small Square Monopole Antenna With Inverted T-Shaped Notch in the Ground Plane for UWB Application. *Ojaroudi, M.*, +, *LAWP 2009 728-731*
- Multibeam antennas**
- Multibeam Antenna for Telecommunications Networks Using Cylindrical EBG Structure. *Chreim, H.*, +, *LAWP 2009 665-669*
- Multifrequency antennas**
- A Broadband Dual-Mode Monopole Antenna Using NRI-TL Metamaterial Loading. *Antoniades, M. A.*, +, *LAWP 2009 258-261*
- A Compact Dual-Band Dielectric Resonator Antenna Using a Parasitic Slot. *Chen, H.-M.*, +, *LAWP 2009 173-176*
- A Dual-Frequency Omnidirectional Antenna for Polarization Diversity of MIMO and Wireless Communication Applications. *Ahn, C.-H.*, +, *LAWP 2009 966-969*
- A Dual-Mode Quadrature-Fed Wideband Circularly Polarized Dielectric Resonator Antenna. *Li, B.*, +, *LAWP 2009 1036-1038*
- A Hybrid Prefractal Three-Band Antenna for Multistandard Mobile Wireless Applications. *Azaro, R.*, +, *LAWP 2009 905-908*
- A Ka-Band Dual-Frequency Radiator for Array Applications. *Arneri, E.*, +, *LAWP 2009 894-897*
- A Low-Profile Branched Monopole Laptop Reconfigurable Multiband Antenna for Wireless Applications. *Zhang, C.*, +, *LAWP 2009 216-219*
- A Lumped-Circuit Model for a Triband Trapped Dipole Array Part 1: Model Description. *Coburn, W. O.*, +, *LAWP 2009 14-18*
- A Miniaturized, Dual-Band, Circularly Polarized Microstrip Antenna for Installation Into Satellite Mobile Phones. *Lee, H. R.*, +, *LAWP 2009 823-825*
- A Monopolar Quad-Band Antenna Based on a Hilbert Self-Affine Prefractal Geometry. *Azaro, R.*, +, *LAWP 2009 177-180*
- A Multifractal Cantor Antenna for Multiband Wireless Applications. *Manimegalai, B.*, +, *LAWP 2009 359-362*
- A New Printed Antenna for Multiband Wireless Applications. *Lee, Y.-C.*, +, *LAWP 2009 402-405*
- A New Printed Slot Loop Antenna With Tunable Strips for 2.4- and 5-GHz Wireless Applications. *Lee, Y.-C.*, +, *LAWP 2009 356-358*
- A Novel Compact Dual-Linear Polarized UWB Antenna for VHF/UHF Applications. *Osaretin, I. A.*, +, *LAWP 2009 145-148*
- A Novel Compact Quad-Band Narrow Strip-Loaded Printed Monopole Antenna. *Chen, C.-C.*, +, *LAWP 2009 974-976*
- A Novel Dual-Band Spiral Antenna for a Satellite and Terrestrial Communication System. *Chiu, C.-N.*, +, *LAWP 2009 624-626*
- A Novel Miniaturized-Element Frequency Selective Surface Having a Stable Resonance. *Chiu, C.-N.*, +, *LAWP 2009 1175-1177*
- A Novel Modified Multiband Planar Inverted-F Antenna. *Yu, Y.-C.*, +, *LAWP 2009 189-192*
- A Quadband Antenna With Reconfigurable Feedings. *Li, Y.*, +, *LAWP 2009 1069-1071*
- A Small Dual-Band Inverted-F Antenna With a Twisted Line. *Kim, J. H.*, +, *LAWP 2009 307-310*
- A Switch-Band Antenna for Software-Defined Radio Applications. *Manzighi, M.*, +, *LAWP 2009 3-5*
- Compact Dual-Band Hybrid Dielectric Resonator Antenna With Radiating Slot. *Lin, Y.-F.*, +, *LAWP 2009 6-9*
- Compact Multiband Folded 3-D Monopole Antenna. *Kanj, H.*, +, *LAWP 2009 185-188*
- Coplanar Inverted-F Antenna With Open-End Ground Slots for Multiband Operation. *Razali, A. R.*, +, *LAWP 2009 1029-1032*
- Design of a Multiband Antenna for Mobile Handset Operations. *Hsieh, H.-W.*, +, *LAWP 2009 200-203*
- Design of Sputter-Deposited Multilayer Thin Films Planar Inverted-F Antenna for Mobile Terminals. *Park, B.-S.*, +, *LAWP 2009 1143-1145*
- Dual Printed Antenna for Wi-Fi Applications. *Avila-Navarro, E.*, +, *LAWP 2009 596-598*
- Dual-Band Antenna With Fractal-Based Ground Plane for WLAN Applications. *Gemio, J.*, +, *LAWP 2009 748-751*
- Dual-Band EBG Sectoral Antenna Using a Single-Layer FSS for UMTS Application. *Haji, M.*, +, *LAWP 2009 161-164*
- Dual-Band Full-Space Scanning Leaky-Wave Antenna Based on Ferrite-Loaded Open Waveguide. *Kodera, T.*, +, *LAWP 2009 1202-1205*
- Dual-Band Probe-Fed Stacked Patch Antenna for GNSS Applications. *Wang, Z.*, +, *LAWP 2009 100-103*
- Dual-Band Spline-Shaped PCB Antenna for Wi-Fi Applications. *Lizzi, L.*, +, *LAWP 2009 616-619*
- Dual-Frequency Printed Dipole Loaded With Split Ring Resonators. *Herrera-Martinez, F. J.*, +, *LAWP 2009 137-140*
- Dual-Orthogonal Polarized Antenna for UWB-IR Technology. *Adamiuk, G.*, +, *LAWP 2009 981-984*
- Integrated Bluetooth and UWB Antenna. *Yildirim, B. S.*, +, *LAWP 2009 149-152*
- Link Performance Improvement Using Reconfigurable Multiantenna Systems. *Sukumar, C. R.*, +, *LAWP 2009 873-876*
- Low-Loss Wideband Multimodal Interferometric Antenna for DOA in Azimuth and Elevation. *Remez, J.*, +, *LAWP 2009 898-902*
- Modified TM_{020} Mode of a Rectangular Patch Antenna Partially Loaded With Metamaterial for Dual-Band Applications. *Xiong, J.*, +, *LAWP 2009 1006-1009*
- Multiband Dual Spiral Stripline-Loaded Monopole Antenna. *Nguyen, T. K.*, +, *LAWP 2009 57-59*
- Novel Planar UWB Monopole Antenna With Triple Band-Notched Characteristics. *Li, W. T.*, +, *LAWP 2009 1094-1098*
- Planar, Compact Dual-Band Antenna for Wireless LAN Applications. *Midrio, M.*, +, *LAWP 2009 1234-1237*
- Printed Broadband Monopole Antenna for WLAN/WiMAX Applications. *Chen, I.-F.*, +, *LAWP 2009 472-474*
- Resonator-Loaded Dual-Band Monopole for Universal WLAN. *Gemio, J.*, +, *LAWP 2009 736-739*
- Sierpinski Pyramidal Antenna Loaded With a Cutoff Open-Ended Waveguide. *Hebib, S.*, +, *LAWP 2009 352-355*
- Multilayers**
- Design of Sputter-Deposited Multilayer Thin Films Planar Inverted-F Antenna for Mobile Terminals. *Park, B.-S.*, +, *LAWP 2009 1143-1145*
- Subwavelength Target Detection Using Ultrawideband Time-Reversal Techniques With a Multilayered Dielectric Slab. *Liao, T.-H.*, +, *LAWP 2009 835-838*
- Multipath channels**
- Analysis of Correlated Shadow Fading in Dual-Link Indoor Radio Wave Propagation. *Poutanen, J.*, +, *LAWP 2009 1190-1193*
- Channel Sounding of Loaded Reverberation Chamber for Over-the-Air Testing of Wireless Devices Coherence Bandwidth Versus Average Mode Bandwidth and Delay Spread. *Chen, X.*, +, *LAWP 2009 678-681*
- Comment on "Short-Delay Multipath Mitigation Technique Based on Virtual Multipath". *Zhang, S.*, +, *LAWP 2009 1434-1435*
- Reply to "Comment on "Short-Delay Multipath Mitigation Technique Based on Virtual Multipath"". *Zhang, Z.*, +, *LAWP 2009 1435*
- Temporal Dispersion Characterization of Over-Building Propagation Applied to Iso-Frequency Repeaters. *Rubio, L.*, +, *LAWP 2009 509-512*
- Multiplexing equipment**
- Dual-Band Full-Space Scanning Leaky-Wave Antenna Based on Ferrite-Loaded Open Waveguide. *Kodera, T.*, +, *LAWP 2009 1202-1205*

N

Network analyzers

Impedance Measurement of Properly Excited Small Balanced Antennas. *Kaldjob, E. B.*, +, *LAWP 2009 193-195*

Network routing

Switched Beam Antenna Based on RF MEMS SPDT Switch on Quartz Substrate. *Cheng, S.*, +, *LAWP 2009 383-386*

Newton method

Microwave Biomedical Imaging Using the Multiplicative Regularized Gauss Newton Inversion. *Mojabi, P.*, +, *LAWP 2009 645-648*

Nickel

Design of Sputter-Deposited Multilayer Thin Films Planar Inverted-F Antenna for Mobile Terminals. *Park, B.-S.*, +, *LAWP 2009 1143-1145*

Nickel compounds

DVB-H Antenna Design Using Folder-Type Chassis and Coupling Element on a Ferrite. *Rhyu, H.*, +, *LAWP 2009 453-456*

Noise

Evaluation of the Radiation Efficiency and the Noise Temperature of Low-Loss Antennas. *Maaskant, R.*, +, *LAWP 2009 1166-1170*

Numerical analysis

Beam Scanning Using Flat Transformation Electromagnetic Focusing Lenses. *Kwon, D.-H.*, +, *LAWP 2009 1115-1118*

Design and Experimental Verification of a 3D Magnetic EZ Antenna at 300 MHz. *Ziolkowski, R. W.*, +, *LAWP 2009 989-993*

Enhanced-Gain Microstrip Antenna Using Engineered Magnetic Superstrates. *Attia, H.*, +, *LAWP 2009 1198-1201*

General Electromagnetic Boundary Conditions Involving Normal Field Components. *Lindell, I. V.*, +, *LAWP 2009 877-880*

High-Frequency Asymptotics for Diffraction by a Strongly Elongated Body. *Andronov, I. V.*, +, *LAWP 2009 872*

Microdosimetry in the Microwave Range: A Quantitative Assessment at Single Cell Level. *Liberti, M.*, +, *LAWP 2009 865-868*

Numerical models

Design and Analysis of Three-Dimensionalized ELC Metamaterial Unit Cell. *Sajuyigbe, S.*, +, *LAWP 2009 1268-1271*

Difficulties in Recognizing Ill-Posed Electromagnetic Problems Involving Wrong Effective Models of Media. *Bozza, G.*, +, *LAWP 2009 1283-1287*

O

Object detection

Subwavelength Target Detection Using Ultrawideband Time-Reversal Techniques With a Multilayered Dielectric Slab. *Liao, T.-H.*, +, *LAWP 2009 835-838*

Object recognition

Drift Denoising of Experimental TE Measurements for Imaging 2D PEC Cylinders. *Hassan, A. M.*, +, *LAWP 2009 1218-1222*

OFDM modulation

Effect of Pedestrian Movement on MIMO-OFDM Channel Capacity in an Indoor Environment. *Das Gupta, J. D.*, +, *LAWP 2009 682-685*

Field Probes Performance for the Measurement of Spread-Spectrum Radio Signals. *Trincherro, D.*, +, *LAWP 2009 494-497*

Offset reflector antennas

Cross-Polarization Cancellation in an Offset Parabolic Reflector Antenna Using a Corrugated Matched Feed. *Sharma, S. B.*, +, *LAWP 2009 861-864*

EBG Focal Feed Design Optimization. *Menudier, C.*, +, *LAWP 2009 315-318*

Improving the Cross-Polar Performance of an Offset Parabolic Reflector Antenna Using a Rectangular Matched Feed. *Sharma, S. B.*, +, *LAWP 2009 513-516*

Optical communication equipment

Millimeter-Wave Left-Handed Extraordinary Transmission Metamaterial Demultiplexer. *Navarro-Cia, M.*, +, *LAWP 2009 212-215*

Optical modulation

Optically Modulated Scatterer Technique for Radiation Pattern Measurement of Small Antennas and RFID Tags. *Lao, R.-R.*, +, *LAWP 2009 76-79*

Optical prisms

Millimeter-Wave Left-Handed Extraordinary Transmission Metamaterial Demultiplexer. *Navarro-Cia, M.*, +, *LAWP 2009 212-215*

Optical tomography

Improved Near-Field Radar Cross-Section Measurement Technique. *Nicholson, K. J.*, +, *LAWP 2009 1103-1106*

Optical waveguides

Far-Field Radiation Patterns of Terahertz Wire Waveguides. *Liang, H.*, +, *LAWP 2009 1272-1274*

Optimization

Boresight Slope Optimization of Subarrayed Linear Arrays Through the Contiguous Partition Method. *Manica, L.*, +, *LAWP 2009 253-257*

EBG Focal Feed Design Optimization. *Menudier, C.*, +, *LAWP 2009 315-318*

Grating Lobe Reduction in Aperiodic Linear Arrays of Physically Large Antennas. *Barott, W. C.*, +, *LAWP 2009 406-408*

A Ku-K Dual-Band Compact Circular Corrugated Horn for Satellite Communications. *Addamo, G.*, +, *LAWP 2009 1418-1421*

Optimization and Complexity Reduction of Switch-Reconfigured Antennas Using Graph Models. *Costantine, J.*, +, *LAWP 2009 1072-1075*

Shaped Solid Contour Beam Reflector Antennas That Adjust to Varying Operating Conditions With Just a Few Mechanical Actuators. *Grana-Varela, M.*, +, *LAWP 2009 839-842*

Optimized production technology

Far-Field Radiation Patterns of Terahertz Wire Waveguides. *Liang, H.*, +, *LAWP 2009 1272-1274*

Orthogonal codes

The Use of Frequency-Orthogonal Pseudonoise (FOPN) Sounding Signals for Identifying Transmissions From Different Transmit Antennas. *Dahman, G. S.*, +, *LAWP 2009 657-660*

P

P-i-n diodes

A Low-Profile Switchable Quadripolarization Diversity Aperture-Coupled Patch Antenna. *Wang, S.-Y.*, +, *LAWP 2009 522-524*

A Novel Pattern Reconfigurable Antenna Array for Diversity Systems. *Cai, Y.*, +, *LAWP 2009 1227-1230*

Parabolic equations

Transparent Boundary Condition for the Parabolic Equation Modeled by the 4RW. *Janaswamy, R.*, +, *LAWP 2009 23-26*

Parallel plate waveguides

Propagation and Field Excitation in Metal-Strip Grating Waveguides: Homogeneous Model and Full-Wave Analysis. *Lovat, G.*, +, *LAWP 2009 708-711*

Pareto optimization

Multiobjective Synthesis of Antenna Arrays Using a Vector Tabu Search Algorithm. *Ho, S. L.*, +, *LAWP 2009 947-950*

Particle swarm optimization

A Hybrid Prefractal Three-Band Antenna for Multistandard Mobile Wireless Applications. *Azaro, R.*, +, *LAWP 2009 905-908*

Almost Time-Independent Performance in Time-Modulated Linear Arrays. *Manica, L.*, +, *LAWP 2009 843-846*

Design and Optimization of Compact Balanced Antipodal Staircase Bow-Tie Antenna. *Dadgarpour, A.*, +, *LAWP 2009 1135-1138*

Passband

A Miniaturized Dual-Band Frequency Selective Surface (FSS) With Closed Loop and Its Complementary Pattern. *Hu, X.-D.*, +, *LAWP 2009 1374-1377*

Patch antennas

A Wideband Patch Antenna With Dual-Cylindrical Probe Feed. *Zhou, H.*, +, *LAWP 2009 1321-1324*

High-Efficient and High-Gain Superstrate Antenna for 60-GHz Indoor Communication. *Vettikalladi, H.*, +, *LAWP 2009 1422-1425*

Improved Cross-Polarization Characteristics of Circular Microstrip Antenna Employing Arc-Shaped Defected Ground Structure (DGS). *Guha, D.*, +, *LAWP 2009 1367-1369*

Patient monitoring

UHF Propagation in the Magnetic Resonance Bore. *Black, J. A.*, +, *LAWP 2009 869-871*

Performance evaluation

A 3D-to-2D Transform Algorithm for Incorporating 3D Antenna Radiation Patterns in SCM. *Kanj, H.*, +, *LAWP 2009 815-818*

Periodic structures

Extraction of Wave Propagation Mechanisms in a Cut-Wire Array Using the ESPRIT Algorithm. *Li, Y.*, +, *LAWP 2009 744-747*

Multibeam Antenna for Telecommunications Networks Using Cylindrical EBG Structure. *Cheim, H.*, +, *LAWP 2009 665-669*

Permittivity

A Novel High-Directivity Microstrip Patch Antenna Based on Zero-Index Metamaterial. *Zhou, H.*, +, *LAWP 2009 538-541*

- Design and Analysis of Three-Dimensionalized ELC Metamaterial Unit Cell. *Sajuyigbe, S.*, +, *LAWP 2009 1268-1271*
- Design of Planar Artificial Magnetic Conductor Ground Plane Using Frequency-Selective Surfaces for Frequencies Below 1 GHz. *de Cos, M. E.*, +, *LAWP 2009 951-954*
- Effects of Artificial Magnetic Conductors in the Design of Low-Profile High-Gain Planar Antennas With High-Permittivity Dielectric Superstrate. *Foroozesh, A.*, +, *LAWP 2009 10-13*
- Planar Surface-Wave Sources and Metallic Grating Lenses for Controlled Guided-Wave Propagation. *Podilchak, S. K.*, +, *LAWP 2009 371-374*
- Perturbation methods**
- Correction to "Suppression of the Slot-Mode Radiation in a Slitted Waveguide Using Periodic Slot Perturbations". *Sutinjo, A.*, +, *LAWP 2009 1436*
- Perturbation Technique to Analyze Mutual Coupling in Reflectarrays. *Jamaluddin, M. H.*, +, *LAWP 2009 697-700*
- Phantoms**
- Microwave Radar-Based Breast Cancer Detection: Imaging in Inhomogeneous Breast Phantoms. *Klemm, M.*, +, *LAWP 2009 1349-1352*
- UHF Propagation in the Magnetic Resonance Bore. *Black, J. A.*, +, *LAWP 2009 869-871*
- Phase control**
- Sidelobe Reduction Through Element Phase Control in Uniform Subarrayed Array Antennas. *Rocca, P.*, +, *LAWP 2009 437-440*
- Phase shift keying**
- Experimental Verification of the Hybrid Smart Antenna Algorithm With Modulated Waveforms. *Celik, N.*, +, *LAWP 2009 236-239*
- Phased array radar**
- Frequency-Selective Surface to Prevent Interference Between Radar and SATCOM Antennas. *Monni, S.*, +, *LAWP 2009 220-223*
- Photonic band gap**
- An LOD-FDTD Method for the Analysis of Periodic Structures at Normal Incidence. *Shibayama, J.*, +, *LAWP 2009 890-893*
- Design of a Dual-Band, Compact Yagi Antenna Over an EBG Ground Plane. *Lim, S.*, +, *LAWP 2009 88-91*
- Dual-Band EBG Sectoral Antenna Using a Single-Layer FSS for UMTS Application. *Hajj, M.*, +, *LAWP 2009 161-164*
- EBG Focal Feed Design Optimization. *Menudier, C.*, +, *LAWP 2009 315-318*
- EBG Focal Feed Improvements for Ka-Band Multibeam Space Applications. *Menudier, C.*, +, *LAWP 2009 611-615*
- EBG-Based Circular Waveguide Rod Arrays With Improved Scanning Characteristics. *Fu, Y.*, +, *LAWP 2009 705-707*
- Employing EBG Structures in Multiantenna Systems for Improving Isolation and Diversity Gain. *Payandehjoo, K.*, +, *LAWP 2009 1162-1165*
- Enhancement of Microstrip Monopole Antenna Bandwidth by Using EBG Structures. *Elsheakh, D. N.*, +, *LAWP 2009 959-962*
- Input Impedance of Fabry-Perot, EBG, and Leaky-Wave Antennas Excited by a Line Source. *Vu, T.-H.*, +, *LAWP 2009 248-252*
- Modification of the Radiation Patterns of Higher Order Modes of Triangular Printed Antennas by EBG Ground Planes. *Siakavara, K.*, +, *LAWP 2009 124-128*
- Multifed Sectoral EBG Antenna for WiMAX Applications. *Serhal, D.*, +, *LAWP 2009 620-623*
- Reconfigurable Beamwidth Antenna Based on Active Partially Reflective Surfaces. *Edalati, A.*, +, *LAWP 2009 1087-1090*
- Reduction of Patch Antenna Coupling by Using a Compact EBG Formed by Shorted Strips With Interlocked Branch-Stub. *Caminita, F.*, +, *LAWP 2009 811-814*
- Ultrawideband Suppression of Ground Bounce Noise in Multilayer PCB Using Locally Embedded Planar Electromagnetic Band-Gap Structures. *Li, L.*, +, *LAWP 2009 740-743*
- Photonic crystals**
- Integration of Single-Mode Photonic Crystal Clad Waveguides With Monolithically Constructed Ceramic Subsystems. *Brakora, K. F.*, +, *LAWP 2009 433-436*
- Planar antenna arrays**
- 94-GHz Log-Periodic Antenna on GaAs Substrate Using Air-Bridge Structure. *Baek, Y.-H.*, +, *LAWP 2009 909-911*
- A Fraunhofer-Based Approach for the Assessment of the Field Radiated in the Fresnel Region of an Antenna. *Trincherio, D.*, +, *LAWP 2009 30-33*
- A Simple Idea for an Effective Sub-Arraying of Large Planar Sources. *Isernia, T.*, +, *LAWP 2009 169-172*
- Broadband Slot-Type Bruce Array Fed by a Microstrip-to-Slotline T-Junction. *Chen, S.-Y.*, +, *LAWP 2009 116-119*
- Coupling Between Waveguide-Fed Planar Slot Arrays. *Rengarajan, S. R.*, +, *LAWP 2009 429-432*
- Design and Implementation of a Compact 6-Port Antenna. *Chiu, C.-Y.*, +, *LAWP 2009 767-770*
- Design of Dielectric-Covered Planar Arrays of Longitudinal Slots. *Casula, G. A.*, +, *LAWP 2009 752-755*
- Efficient, Low-Cost Integrated Waveguide-Fed Planar Antenna Array for Ku-Band Applications. *Borji, A.*, +, *LAWP 2009 336-339*
- Novel Broadband Planar Reflectarray With Parasitic Dipoles for Wireless Communication Applications. *Li, L.*, +, *LAWP 2009 881-885*
- Wideband Planar Patch Antenna Array on Cylindrical Surface. *Abbaspour, M.*, +, *LAWP 2009 394-397*
- Planar antennas**
- A Compact Meander-Line UHF RFID Tag Antenna Loaded With Elements Found in Right/Left-Handed Coplanar Waveguide Structures. *Braaten, B. D.*, +, *LAWP 2009 1158-1161*
- A Compact Planar MIMO Antenna System of Four Elements With Similar Radiation Characteristics and Isolation Structure. *Li, H.*, +, *LAWP 2009 1107-1110*
- A Compact Transmission-Line Metamaterial Antenna With Extended Bandwidth. *Zhu, J.*, +, *LAWP 2009 295-298*
- A DVBH/GSM/UMTS Planar Antenna for Multimode Wireless Devices. *Lizzi, L.*, +, *LAWP 2009 568-571*
- A Hybrid Prefractal Three-Band Antenna for Multistandard Mobile Wireless Applications. *Azaro, R.*, +, *LAWP 2009 905-908*
- A Novel Broadband Plate-Loaded Planar Monopole Antenna. *Mazinani, S. M.*, +, *LAWP 2009 1123-1126*
- A Novel Dual-Band Spiral Antenna for a Satellite and Terrestrial Communication System. *Chiu, C.-N.*, +, *LAWP 2009 624-626*
- A Novel High-Directivity Microstrip Patch Antenna Based on Zero-Index Metamaterial. *Zhou, H.*, +, *LAWP 2009 538-541*
- A Novel Planar Conformal Antenna Designed With Splines. *Koulouridis, S.*, +, *LAWP 2009 34-36*
- Design and Optimization of Compact Balanced Antipodal Staircase Bow-Tie Antenna. *Dadgarpour, A.*, +, *LAWP 2009 1135-1138*
- Design of Frequency-Selective Surfaces Radome for a Planar Slotted Waveguide Antenna. *Chen, H.*, +, *LAWP 2009 1231-1233*
- Dual-Orthogonal Polarized Antenna for UWB-IR Technology. *Adamkiw, G.*, +, *LAWP 2009 981-984*
- Effects of Artificial Magnetic Conductors in the Design of Low-Profile High-Gain Planar Antennas With High-Permittivity Dielectric Superstrate. *Foroozesh, A.*, +, *LAWP 2009 10-13*
- Enhancement of Microstrip Monopole Antenna Bandwidth by Using EBG Structures. *Elsheakh, D. N.*, +, *LAWP 2009 959-962*
- Integrated Bluetooth and UWB Antenna. *Yildirim, B. S.*, +, *LAWP 2009 149-152*
- Novel Planar UWB Monopole Antenna With Triple Band-Notched Characteristics. *Li, W. T.*, +, *LAWP 2009 1094-1098*
- Planar Substrate Integrated Waveguide Cavity-Backed Antenna. *Bohorquez, J. C.*, +, *LAWP 2009 1139-1142*
- Planar, Compact Dual-Band Antenna for Wireless LAN Applications. *Midrio, M.*, +, *LAWP 2009 1234-1237*
- The Circulator and Antenna as a Single Integrated System. *Adams, R. S.*, +, *LAWP 2009 165-168*
- Planar inverted-F antennas**
- 916 MHz F-Inverted Compact Antenna (FICA) for Highly Integrated Transceivers. *Yang, B.*, +, *LAWP 2009 181-184*
- A Miniature Spiral Diversity Antenna System With High Overall Gain Coverage and Low SAR. *Sayem, A. T. M.*, +, *LAWP 2009 49-52*
- A Novel Modified Multiband Planar Inverted-F Antenna. *Yu, Y.-C.*, +, *LAWP 2009 189-192*
- A Small Dual-Band Inverted-F Antenna With a Twisted Line. *Kim, J. H.*, +, *LAWP 2009 307-310*
- A Spherical Inverted-F Antenna (SIFA). *Huff, G. H.*, +, *LAWP 2009 649-652*
- An Empirical Equation for Predicting the Resonant Frequency of Planar Inverted-F Antennas. *Chattha, H. T.*, +, *LAWP 2009 856-860*
- Coplanar Inverted-F Antenna With Open-End Ground Slots for Multiband Operation. *Razali, A. R.*, +, *LAWP 2009 1029-1032*
- Design and Implementation of a Compact 6-Port Antenna. *Chiu, C.-Y.*, +, *LAWP 2009 767-770*
- Design of Sputter-Deposited Multilayer Thin Films Planar Inverted-F Antenna for Mobile Terminals. *Park, B.-S.*, +, *LAWP 2009 1143-1145*
- Integrated Dual Planar Inverted-F Antenna With Enhanced Isolation. *Lee, C.-H.*, +, *LAWP 2009 963-965*

- MEMS-Switched, Frequency-Tunable Hybrid Slot/PIFA Antenna. *Liu, Z.*, +, *LAWP 2009 311-314*
- PIFA Bandwidth Enhancement by Changing the Widths of Feed and Shorting Plates. *Chattha, H. T.*, +, *LAWP 2009 637-640*
- Planar Hexa-Band Inverted-F Antenna for Portable Device Applications. *Chiu, C.-W.*, +, *LAWP 2009 1099-1102*
- Quasi-Isotropic X-Band Inverted-F Antenna for Active RFID Tags. *Pazin, L.*, +, *LAWP 2009 27-29*
- Two-Element PIFA Antenna System With Inherent Performance of Low Mutual Coupling. *Pang, J.-Y.*, +, *LAWP 2009 1223-1226*

Planar waveguides

- Planar Substrate Integrated Waveguide Cavity-Backed Antenna. *Bohorquez, J. C.*, +, *LAWP 2009 1139-1142*
- Planar Surface-Wave Sources and Metallic Grating Lenses for Controlled Guided-Wave Propagation. *Podilchak, S. K.*, +, *LAWP 2009 371-374*

Plasmonics

- A Physical Explanation of Angle-Independent Reflection and Transmission Properties of Metafilms/Metasurfaces. *Gordon, J. A.*, +, *LAWP 2009 1127-1130*

Plates (structures)

- Local Metamaterial-Based Waveguides in Gaps Between Parallel Metal Plates. *Kildal, P.-S.*, +, *LAWP 2009 84-87*

Polarization

- A Novel Compact Dual-Linear Polarized UWB Antenna for VHF/UHF Applications. *Osaretin, I. A.*, +, *LAWP 2009 145-148*
- A Substrate Integrated Waveguide Circular Polarized Slot Radiator and Its Linear Array. *Chen, P.*, +, *LAWP 2009 120-123*
- Low-Profile Integrated Microstrip Antenna for GPS-DSRC Application. *Rafi, G. Z.*, +, *LAWP 2009 44-48*
- Sierpinski Pyramidal Antenna Loaded With a Cutoff Open-Ended Waveguide. *Hebib, S.*, +, *LAWP 2009 352-355*

Polynomials

- FDTD Numerical Tests of the Convolutional PML at Extremely Low Frequencies. *Wagner, C. L.*, +, *LAWP 2009 1398-1401*
- Weighted Laguerre Polynomials-Finite Difference Method for Time-Domain Modeling of Thin Wire Antennas in a Loaded Cavity. *Zhao, H.*, +, *LAWP 2009 1131-1134*

Power measurement

- Experimental Verification of Z Antennas at UHF Frequencies. *Ziolkowski, R. W.*, +, *LAWP 2009 1329-1333*

Printed circuit design

- Experimental Evaluations of Printed Circuit Board and On-Chip Inductors Backed by AMC Surfaces. *Kostka, D.*, +, *LAWP 2009 720-723*

Printed circuits

- A New Printed Antenna for Multiband Wireless Applications. *Lee, Y.-C.*, +, *LAWP 2009 402-405*
- A Novel Pattern Reconfigurable Antenna Array for Diversity Systems. *Cai, Y.*, +, *LAWP 2009 1227-1230*
- Dual-Band Spline-Shaped PCB Antenna for Wi-Fi Applications. *Lizzi, L.*, +, *LAWP 2009 616-619*
- MEMS-Switched, Frequency-Tunable Hybrid Slot/PIFA Antenna. *Liu, Z.*, +, *LAWP 2009 311-314*
- Perturbed Square-Ring Slot Antenna With Reconfigurable Polarization. *Dorsey, W. M.*, +, *LAWP 2009 603-606*
- Planar Substrate Integrated Waveguide Cavity-Backed Antenna. *Bohorquez, J. C.*, +, *LAWP 2009 1139-1142*
- Substrate-Integrated Waveguide Ku-Band Cavity-Backed 2×2 Microstrip Patch Array Antenna. *Awida, M. H.*, +, *LAWP 2009 1054-1056*
- Ultrawideband Suppression of Ground Bounce Noise in Multilayer PCB Using Locally Embedded Planar Electromagnetic Band-Gap Structures. *Li, L.*, +, *LAWP 2009 740-743*

Probes

- A Wideband Patch Antenna With Dual-Cylindrical Probe Feed. *Zhou, H.*, +, *LAWP 2009 1321-1324*

Prosthetics

- RF Coupling in a 433-MHz Biotelemetry System for an Artificial Hip. *Weiss, M. D.*, +, *LAWP 2009 916-919*

Prototypes

- Improved Cross-Polarization Characteristics of Circular Microstrip Antenna Employing Arc-Shaped Defected Ground Structure (DGS). *Guha, D.*, +, *LAWP 2009 1367-1369*
- Miniaturized Planar Annular Slot Antenna Design Utilizing Shorting Conducting Strip. *Ko, C.-H.*, +, *LAWP 2009 1360-1363*

Pseudonoise codes

- The Use of Frequency-Orthogonal Pseudonoise (FOPN) Sounding Signals for Identifying Transmissions From Different Transmit Antennas. *Dahman, G. S.*, +, *LAWP 2009 657-660*

Q

Q-factor

- A Low Q Electrically Small Magnetic (TE Mode) Dipole. *Best, S. R.*, +, *LAWP 2009 572-575*
- EBG Focal Feed Design Optimization. *Menudier, C.*, +, *LAWP 2009 315-318*
- Experimental Evaluations of Printed Circuit Board and On-Chip Inductors Backed by AMC Surfaces. *Kostka, D.*, +, *LAWP 2009 720-723*

Quantum dot lasers

- Hybrid Integration of a Bowtie Slot Antenna and a Quantum Dot Mode-Locked Laser. *Kim, J. H.*, +, *LAWP 2009 1337-1340*

R

Radar

- Compact Ultrawideband UHF Array Antenna for Through-Wall Radar Applications. *Ren, Y.-J.*, +, *LAWP 2009 1302-1305*

Radar antennas

- A Combinatorial Method for Antenna Array Design in Minimum Redundancy MIMO Radars. *Dong, J.*, +, *LAWP 2009 1150-1153*
- Automotive Radome Design Reflection Reduction of Stratified Media. *Fitzek, F.*, +, *LAWP 2009 1076-1079*
- Compact Ultrawideband UHF Array Antenna for Through-Wall Radar Applications. *Ren, Y.-J.*, +, *LAWP 2009 1302-1305*
- Frequency-Selective Surface to Prevent Interference Between Radar and SATCOM Antennas. *Monni, S.*, +, *LAWP 2009 220-223*
- Near-Space Wide-Swath Radar Imaging With Multiaperture Antenna. *Wang, W.-Q.*, +, *LAWP 2009 461-464*
- Robust Microstrip-to-Waveguide Transitions for Millimeter-Wave Radar Sensor Applications. *Boukari, B.*, +, *LAWP 2009 759-762*
- Through-Wall Imaging of Moving Targets Using UWB Random Noise Radar. *Wang, H.*, +, *LAWP 2009 802-805*

Radar clutter

- Through-Wall Imaging of Moving Targets Using UWB Random Noise Radar. *Wang, H.*, +, *LAWP 2009 802-805*

Radar cross section

- Application of Bionics in Antenna Radar Cross Section Reduction. *Jiang, W.*, +, *LAWP 2009 1275-1278*

Radar cross-sections

- Design and Simulation of a Miniature Thick-Screen Frequency Selective Surface Radome. *Lin, B.-Q.*, +, *LAWP 2009 1065-1068*
- Design of Frequency-Selective Surfaces Radome for a Planar Slotted Waveguide Antenna. *Chen, H.*, +, *LAWP 2009 1231-1233*
- Improved Near-Field Radar Cross-Section Measurement Technique. *Nicholson, K. J.*, +, *LAWP 2009 1103-1106*

Radar detection

- A Broadband Microstrip Antenna With Improved Gain for Noncontact Vital Sign Radar Detection. *Park, Z.*, +, *LAWP 2009 939-942*
- Through-Wall Imaging of Moving Targets Using UWB Random Noise Radar. *Wang, H.*, +, *LAWP 2009 802-805*

Radar imaging

- Improved Near-Field Radar Cross-Section Measurement Technique. *Nicholson, K. J.*, +, *LAWP 2009 1103-1106*
- Microwave Radar-Based Breast Cancer Detection: Imaging in Inhomogeneous Breast Phantoms. *Klemm, M.*, +, *LAWP 2009 1349-1352*
- Near-Space Wide-Swath Radar Imaging With Multiaperture Antenna. *Wang, W.-Q.*, +, *LAWP 2009 461-464*
- Spectral Difference Between Microwave Radar and Microwave-Induced Thermoacoustic Signals. *Zhu, K. G.*, +, *LAWP 2009 1259-1262*
- Through-Wall Imaging of Moving Targets Using UWB Random Noise Radar. *Wang, H.*, +, *LAWP 2009 802-805*

Radar resolution

- Near-Space Wide-Swath Radar Imaging With Multiaperture Antenna. *Wang, W.-Q.*, +, *LAWP 2009 461-464*

Radar tracking

Through-Wall Imaging of Moving Targets Using UWB Random Noise Radar. *Wang, H.*, +, *LAWP 2009 802-805*

Radiation

Correction to "Suppression of the Slot-Mode Radiation in a Slitted Waveguide Using Periodic Slot Perturbations". *Sutinjo, A.*, +, *LAWP 2009 1436*

Radio equipment

An Experiment Study of the Propagation of Radio Waves in a Scaled Model of Long-Wall Coal Mining Tunnels. *Han, G.*, +, *LAWP 2009 502-504*

Channel Sounding of Loaded Reverberation Chamber for Over-the-Air Testing of Wireless Devices Coherence Bandwidth Versus Average Mode Bandwidth and Delay Spread. *Chen, X.*, +, *LAWP 2009 678-681*

Radio links

Analysis of Correlated Shadow Fading in Dual-Link Indoor Radio Wave Propagation. *Poutanen, J.*, +, *LAWP 2009 1190-1193*

Radio networks

A Modified Planar Quasi-Yagi Antenna for Wireless Communication Applications. *Gorbachev, A. P.*, +, *LAWP 2009 1091-1093*

Compact UWB Antenna With I-Shaped Band-Notch Parasitic Element for Laptop Applications. *Choi, N.*, +, *LAWP 2009 580-582*

New Development Around M-PRS Antennas for Sectoral Coverage of Telecommunication Networks With Dual Polarization. *Hajj, M.*, +, *LAWP 2009 670-673*

Propagation Modeling and Measurement for a Multifloor Stairwell. *Lim, S. Y.*, +, *LAWP 2009 583-586*

Wideband Printed Microstrip Antenna for Wireless Communications. *Sarin, V. P.*, +, *LAWP 2009 779-781*

Radio receivers

RF Coupling in a 433-MHz Biotelemetry System for an Artificial Hip. *Weiss, M. D.*, +, *LAWP 2009 916-919*

Radio repeaters

Temporal Dispersion Characterization of Over-Building Propagation Applied to Iso-Frequency Repeaters. *Rubio, L.*, +, *LAWP 2009 509-512*

Radio transmitters

RF Coupling in a 433-MHz Biotelemetry System for an Artificial Hip. *Weiss, M. D.*, +, *LAWP 2009 916-919*

Radioastronomy

Evaluation of the Radiation Efficiency and the Noise Temperature of Low-Loss Antennas. *Maaskant, R.*, +, *LAWP 2009 1166-1170*

Radiocommunication

A Lumped-Circuit Model for a Triband Trapped Dipole Array Part 1: Model Description. *Coburn, W. O.*, +, *LAWP 2009 14-18*

Conformal Strip-Fed Shaped Cylindrical Dielectric Resonator: Improved Design of a Wideband Wireless Antenna. *Chu, L. C. Y.*, +, *LAWP 2009 482-485*

Experimental Setup for the Characterization of Field Probes Performance in Presence of Digitally Modulated Radio Signals. *Trincherro, D.*, +, *LAWP 2009 224-227*

New Pawn-Shaped Dielectric Ring Resonator Loaded Hybrid Monopole Antenna for Improved Ultrawide Bandwidth. *Guha, D.*, +, *LAWP 2009 1178-1181*

Perturbed Square-Ring Slot Antenna With Reconfigurable Polarization. *Dorsey, W. M.*, +, *LAWP 2009 603-606*

Radiofrequency filters

An Integrated Approach to RF Antenna-Filter Co-Design. *Zuo, J.*, +, *LAWP 2009 141-144*

Radiofrequency identification

A Compact Meander-Line UHF RFID Tag Antenna Loaded With Elements Found in Right/Left-Handed Coplanar Waveguide Structures. *Braaten, B. D.*, +, *LAWP 2009 1158-1161*

A Miniature RFID Tag Antenna Design for Metallic Objects Application. *Chen, S.-L.*, +, *LAWP 2009 1043-1045*

A Novel Conformal RFID-Enabled Module Utilizing Inkjet-Printed Antennas and Carbon Nanotubes for Gas-Detection Applications. *Yang, L.*, +, *LAWP 2009 653-656*

Matching Techniques for Miniaturized UHF RFID Loop Antennas. *Im, Y.-T.*, +, *LAWP 2009 266-270*

Optically Modulated Scatterer Technique for Radiation Pattern Measurement of Small Antennas and RFID Tags. *Lao, R.-R.*, +, *LAWP 2009 76-79*

Quasi-Isotropic X-Band Inverted-F Antenna for Active RFID Tags. *Pazin, L.*, +, *LAWP 2009 27-29*

Tapered Meander Line Antenna for Maximum Efficiency and Minimal Environmental Impact. *Galehdar, A.*, +, *LAWP 2009 244-247*

Radiofrequency interference

Frequency-Selective Surface to Prevent Interference Between Radar and SATCOM Antennas. *Monni, S.*, +, *LAWP 2009 220-223*

Radio wave propagation

An Experiment Study of the Propagation of Radio Waves in a Scaled Model of Long-Wall Coal Mining Tunnels. *Han, G.*, +, *LAWP 2009 502-504*

Analysis of Correlated Shadow Fading in Dual-Link Indoor Radio Wave Propagation. *Poutanen, J.*, +, *LAWP 2009 1190-1193*

Comparison of Various Urban Radiowave Propagation Models With Measurements. *Rodriguez, J.-V.*, +, *LAWP 2009 977-980*

Invisibility Cloaks Modeled by Anisotropic Metamaterials Based on Inductor-Capacitor Networks. *Liu, X.*, +, *LAWP 2009 1154-1157*

Path-Loss and Time-Dispersion Parameters of UWB Signals in a Military Airplane. *Spiliotopoulos, C. G.*, +, *LAWP 2009 790-793*

Propagation Modeling and Measurement for a Multifloor Stairwell. *Lim, S. Y.*, +, *LAWP 2009 583-586*

Rain Depolarization Measurements on Low Margin Ku-Band Satellite Signal at a Tropical Location. *Maitra, A.*, +, *LAWP 2009 445-448*

Use of Geospatial Resources for Radio Propagation Prediction in Urban Areas. *Yun, Z.*, +, *LAWP 2009 587-591*

UTD-PO Formulation for the Multiple-Diffraction of Spherical Waves by an Array of Multimodeled Obstacles. *Rodriguez, J.-V.*, +, *LAWP 2009 379-382*

Radomes

A Design Strategy for Large Dielectric Radome Compensated Joints. *Virone, G.*, +, *LAWP 2009 546-549*

Automotive Radome Design Reflection Reduction of Stratified Media. *Fitzek, F.*, +, *LAWP 2009 1076-1079*

Design and Simulation of a Miniature Thick-Screen Frequency Selective Surface Radome. *Lin, B.-Q.*, +, *LAWP 2009 1065-1068*

Design of Frequency-Selective Surfaces Radome for a Planar Slotted Waveguide Antenna. *Chen, H.*, +, *LAWP 2009 1231-1233*

Rain

Analysis of the Variability in the Raindrop Size Distribution and Its Effect on Attenuation at 20 40 GHz. *Townsend, A. J.*, +, *LAWP 2009 1210-1213*

Rain Depolarization Measurements on Low Margin Ku-Band Satellite Signal at a Tropical Location. *Maitra, A.*, +, *LAWP 2009 445-448*

Random noise

Through-Wall Imaging of Moving Targets Using UWB Random Noise Radar. *Wang, H.*, +, *LAWP 2009 802-805*

Ray tracing

Effect of Pedestrian Movement on MIMO-OFDM Channel Capacity in an Indoor Environment. *Das Gupta, J. D.*, +, *LAWP 2009 682-685*

Fast Analysis of Terahertz Integrated Lens Antennas Employing the Spectral Domain Ray Tracing Method. *Haihu, D. M.*, +, *LAWP 2009 37-39*

Propagation Modeling and Measurement for a Multifloor Stairwell. *Lim, S. Y.*, +, *LAWP 2009 583-586*

Use of Geospatial Resources for Radio Propagation Prediction in Urban Areas. *Yun, Z.*, +, *LAWP 2009 587-591*

Rayleigh scattering

Scattering by DB Spheres. *Sihvola, A.*, +, *LAWP 2009 542-545*

Receiving antennas

A Combinatorial Method for Antenna Array Design in Minimum Redundancy MIMO Radars. *Dong, J.*, +, *LAWP 2009 1150-1153*

A Fraunhofer-Based Approach for the Assessment of the Field Radiated in the Fresnel Region of an Antenna. *Trincherro, D.*, +, *LAWP 2009 30-33*

Design and Evaluation of a Compact Antenna for Implant-to-Air UWB Communication. *Dissanayake, T.*, +, *LAWP 2009 153-156*

Temporal Dispersion Characterization of Over-Building Propagation Applied to Iso-Frequency Repeaters. *Rubio, L.*, +, *LAWP 2009 509-512*

Rectangular waveguides

Robust Microstrip-to-Waveguide Transitions for Millimeter-Wave Radar Sensor Applications. *Boukari, B.*, +, *LAWP 2009 759-762*

Reduced order systems

Model-Order Reduction Technique for the Efficient Analysis of Complex Waveguide Structures An Application to the Design of Corrugated Horns. *Addamo, G.*, +, *LAWP 2009 1039-1042*

Reflection

CPW-Fed Planar Printed Monopole Antenna With Impedance Bandwidth Enhanced. *Deng, C.*, +, *LAWP 2009 1394-1397*

Reflector antenna feeds

Cross-Polarization Cancellation in an Offset Parabolic Reflector Antenna Using a Corrugated Matched Feed. *Sharma, S. B.*, +, *LAWP 2009 861-864*

EBG Focal Feed Design Optimization. *Menudier, C.*, +, *LAWP 2009 315-318*

EBG Focal Feed Improvements for Ka-Band Multibeam Space Applications. *Menudier, C.*, +, *LAWP 2009 611-615*

Improving the Cross-Polar Performance of an Offset Parabolic Reflector Antenna Using a Rectangular Matched Feed. *Sharma, S. B.*, +, *LAWP 2009 513-516*

Study of Folded Reflector Multibeam Antenna With Dielectric Rods as Primary Source. *Nguyen, T. P.*, +, *LAWP 2009 786-789*

Reflector antennas

A Circularly Polarized Element for Reflectarray Antennas. *Albooyeh, M.*, +, *LAWP 2009 319-322*

A Coaxial Corrugated Dual-Band Horn Feed. *Zhang, Q.*, +, *LAWP 2009 1357-1359*

A Novel Microstrip Rectangular-Patch/Ring- Combination Reflectarray Element and Its Application. *Li, Q.-Y.*, +, *LAWP 2009 1119-1122*

A Novel Reduced-Size Edge-Shorted Patch Antenna for UHF Band Applications. *Chen, I.-F.*, +, *LAWP 2009 475-477*

A Reflectarray Antenna Based on Multiscale Phase-Shifting Cell Concept. *Salti, H.*, +, *LAWP 2009 363-366*

Design and Fabrication of a Ternary Switch for MEMS-Controlled Reflectarray Elements. *Wu, B.*, +, *LAWP 2009 998-1001*

High-Resolution Probes for Near-Field Measurements of Reflectarray Antennas. *Dieter, S.*, +, *LAWP 2009 157-160*

Performance of an Electrically Small Aperture, Axially Displaced Ellipse Reflector Antenna. *Kumar, C.*, +, *LAWP 2009 903-904*

Perturbation Technique to Analyze Mutual Coupling in Reflectarrays. *Jamaluddin, M. H.*, +, *LAWP 2009 697-700*

Shaped Solid Contour Beam Reflector Antennas That Adjust to Varying Operating Conditions With Just a Few Mechanical Actuators. *Grana-Varela, M.*, +, *LAWP 2009 839-842*

Refractive index

A Broadband Dual-Mode Monopole Antenna Using NRI-TL Metamaterial Loading. *Antoniades, M. A.*, +, *LAWP 2009 258-261*

Confirmation of Zero-N Behavior in a High Gain Grid Structure at Millimeter-Wave Frequencies. *Franson, S. J.*, +, *LAWP 2009 387-390*

Millimeter-Wave Left-Handed Extraordinary Transmission Metamaterial Demultiplexer. *Navarro-Cia, M.*, +, *LAWP 2009 212-215*

Resonant frequency

A Crooked U-Slot Dual-Band Antenna With Radial Stub Feeding. *Bae, H. R.*, +, *LAWP 2009 1345-1348*

Compact Broadband Slotted Rectangular Microstrip Antenna. *Deshmukh, A. A.*, +, *LAWP 2009 1410-1413*

Resonator filters

Compact Three-Port Integrated-Antenna-Filter Modules. *Lim, E. H.*, +, *LAWP 2009 486-489*

Resonators

A Physical Explanation of Angle-Independent Reflection and Transmission Properties of Metafilms/Metasurfaces. *Gordon, J. A.*, +, *LAWP 2009 1127-1130*

Controllable Magnetic Metamaterial Using Digitally Addressable Split-Ring Resonators. *Hand, T. H.*, +, *LAWP 2009 262-265*

Dual-Frequency Printed Dipole Loaded With Split Ring Resonators. *Herrez-Martinez, F. J.*, +, *LAWP 2009 137-140*

Integrated Dual Planar Inverted-F Antenna With Enhanced Isolation. *Lee, C.-H.*, +, *LAWP 2009 963-965*

Planar Hexa-Band Inverted-F Antenna for Portable Device Applications. *Chiu, C.-W.*, +, *LAWP 2009 1099-1102*

Quad-Band MIMO Antenna Array for Portable Wireless Communications Terminals. *Bhatti, R. A.*, +, *LAWP 2009 129-132*

Reverberation chambers

Broadband Space Time Measurements in Reverberation Chamber Including Comparison With Real Environment. *Hallbjorner, P.*, +, *LAWP 2009 1111-1114*

Diversity Gain and MIMO Capacity for Nonisotropic Environments Using a Reverberation Chamber. *Valenzuela-Valdes, J. F.*, +, *LAWP 2009 112-115*

Performances of UWB Wheeler Cap and Reverberation Chamber to Carry Out Efficiency Measurements of Narrowband Antennas. *Le Fur, G.*, +, *LAWP 2009 332-335*

Ridge waveguides

A 4×4 Ridge Substrate Integrated Waveguide (RSIW) Slot Array Antenna. *Ding, Y.*, +, *LAWP 2009 561-564*

Local Metamaterial-Based Waveguides in Gaps Between Parallel Metal Plates. *Kildal, P.-S.*, +, *LAWP 2009 84-87*

Road vehicle radar

Automotive Radome Design Reflection Reduction of Stratified Media. *Fitzek, F.*, +, *LAWP 2009 1076-1079*

Novel Antenna Concept for Compact Millimeter-Wave Automotive Radar Sensors. *Beer, S.*, +, *LAWP 2009 771-774*

S

S-matrix theory

A Design Strategy for Large Dielectric Radome Compensated Joints. *Virone, G.*, +, *LAWP 2009 546-549*

Inclusion of the Feeding Network Effects in the Generalized-Scattering-Matrix Formulation of a Finite Array. *Rubio, J.*, +, *LAWP 2009 819-822*

Mutual Coupling Compensation in Arrays Using a Spherical Wave Expansion of the Radiated Field. *Corcoles, J.*, +, *LAWP 2009 108-111*

S-parameters

Wideband Planar Patch Antenna Array on Cylindrical Surface. *Abbaspour, M.*, +, *LAWP 2009 394-397*

Satellite antennas

A Miniaturized, Dual-Band, Circularly Polarized Microstrip Antenna for Installation Into Satellite Mobile Phones. *Lee, H. R.*, +, *LAWP 2009 823-825*

A Novel Dual-Band Spiral Antenna for a Satellite and Terrestrial Communication System. *Chiu, C.-N.*, +, *LAWP 2009 624-626*

A Novel Microstrip Rectangular-Patch/Ring- Combination Reflectarray Element and Its Application. *Li, Q.-Y.*, +, *LAWP 2009 1119-1122*

A Simple Idea for an Effective Sub-Array of Large Planar Sources. *Isernia, T.*, +, *LAWP 2009 169-172*

Frequency-Selective Surface to Prevent Interference Between Radar and SATCOM Antennas. *Monni, S.*, +, *LAWP 2009 220-223*

Novel Dual Circularly Polarized Radiating Element for Spherical Phased-Array Application. *Kumar, C.*, +, *LAWP 2009 826-829*

Sierpinski Pyramidal Antenna Loaded With a Cutoff Open-Ended Waveguide. *Hebib, S.*, +, *LAWP 2009 352-355*

Satellite communication

Analysis of the Variability in the Raindrop Size Distribution and Its Effect on Attenuation at 20 40 GHz. *Townsend, A. J.*, +, *LAWP 2009 1210-1213*

Satellites

A Ku-K Dual-Band Compact Circular Corrugated Horn for Satellite Communications. *Addamo, G.*, +, *LAWP 2009 1418-1421*

Scanning antennas

Dual-Band Full-Space Scanning Leaky-Wave Antenna Based on Ferrite-Loaded Open Waveguide. *Kodera, T.*, +, *LAWP 2009 1202-1205*

Scattering

Application of Bionics in Antenna Radar Cross Section Reduction. *Jiang, W.*, +, *LAWP 2009 1275-1278*

Strong Singularity Reduction for Curved Patches for the Integral Equations of Electromagnetics. *Weile, D. S.*, +, *LAWP 2009 1370-1373*

Scattering parameters

Eigen-Analysis of Lossy Compact Multielement Antenna Systems. *Papamichael, V. C.*, +, *LAWP 2009 1334-1336*

Search problems

Multiobjective Synthesis of Antenna Arrays Using a Vector Tabu Search Algorithm. *Ho, S. L.*, +, *LAWP 2009 947-950*

Sensitivity

A Ku-K Dual-Band Compact Circular Corrugated Horn for Satellite Communications. *Addamo, G.*, +, *LAWP 2009 1418-1421*

Sensors

A New Reconfigurable Antenna Design for Cognitive Radio. *Tawk, Y.*, +, *LAWP 2009 1378-1381*

Robust Microstrip-to-Waveguide Transitions for Millimeter-Wave Radar Sensor Applications. *Boukari, B.*, +, *LAWP 2009 759-762*

Shape

Hard Surfaces to Reduce Blockage in Thick Cylinders. *Rajo-Iglesias, E.*, +, *LAWP 2009 1402-1405*

Ultrawide Bandwidth Umbrella-Shaped Microstrip Monopole Antenna Using Spiral Artificial Magnetic Conductor (SAMC). *Elsheakh, D. N.*, +, *LAWP 2009 1255-1258*

Shape recognition

Drift Denoising of Experimental TE Measurements for Imaging 2D PEC Cylinders. *Hassan, A. M.*, +, *LAWP 2009 1218-1222*

Shaped beam antennas

Shaped Solid Contour Beam Reflector Antennas That Adjust to Varying Operating Conditions With Just a Few Mechanical Actuators. *Grana-Varela, M.*, +, *LAWP 2009 839-842*

Shapes (structures)

Drift Denoising of Experimental TE Measurements for Imaging 2D PEC Cylinders. *Hassan, A. M.*, +, *LAWP 2009 1218-1222*

Signal denoising

A New CLEAN Algorithm for Angle of Arrival Denoising. *Akhdar, O.*, +, *LAWP 2009 478-481*

Signal detection

The Use of Frequency-Orthogonal Pseudonoise (FOPN) Sounding Signals for Identifying Transmissions From Different Transmit Antennas. *Dahman, G. S.*, +, *LAWP 2009 657-660*

Signal flow graphs

Signal Flow Graph for a Probe-Fed Microstrip Patch Antenna. *Ruyle, J. E.*, +, *LAWP 2009 935-938*

Signal processing

Extraction of Wave Propagation Mechanisms in a Cut-Wire Array Using the ESPRIT Algorithm. *Li, Y.*, +, *LAWP 2009 744-747*

Signal to noise ratio

Blind Adaptive Beamforming for Cyclostationary Signals: A Subspace Projection Approach. *Lee, J.-H.*, +, *LAWP 2009 1406-1409*

Uncoupled Impedance Matching for Capacity Maximization of Compact MIMO Arrays. *Tsen, W. F.*, +, *LAWP 2009 1295-1298*

Simulated annealing

Twin Orthogonally Polarized UWB Aperture Antenna Elements With Optimized Profile Feed for Optimal Adaptation. *Martinez-Fernandez, J.*, +, *LAWP 2009 517-521*

Singular value decomposition

Model-Order Reduction Technique for the Efficient Analysis of Complex Waveguide Structures An Application to the Design of Corrugated Horns. *Addamo, G.*, +, *LAWP 2009 1039-1042*

Slabs

Subwavelength Target Detection Using Ultrawideband Time-Reversal Techniques With a Multilayered Dielectric Slab. *Liao, T.-H.*, +, *LAWP 2009 835-838*

Slot antenna arrays

A 4×4 Ridge Substrate Integrated Waveguide (RSIW) Slot Array Antenna. *Ding, Y.*, +, *LAWP 2009 561-564*

A Circularly Polarized Element for Reflectarray Antennas. *Albooyeh, M.*, +, *LAWP 2009 319-322*

A Ka-Band Dual-Frequency Radiator for Array Applications. *Arneri, E.*, +, *LAWP 2009 894-897*

Broadband Circularly Polarized Slot Antenna Array Fed by Asymmetric CPW for L-Band Applications. *Fu, S.*, +, *LAWP 2009 1014-1016*

Broadband Slot-Type Bruce Array Fed by a Microstrip-to-Slotline T-Junction. *Chen, S.-Y.*, +, *LAWP 2009 116-119*

Coupling Between Waveguide-Fed Planar Slot Arrays. *Rengarajan, S. R.*, +, *LAWP 2009 429-432*

Design and Implementation of a Compact 6-Port Antenna. *Chiu, C.-Y.*, +, *LAWP 2009 767-770*

Design of Dielectric-Covered Planar Arrays of Longitudinal Slots. *Casula, G. A.*, +, *LAWP 2009 752-755*

Dual-Polarized Tapered Slot-Line Antenna Array Fed by Rotman Lens Air-Filled Ridge-Port Design. *Remez, J.*, +, *LAWP 2009 847-851*

Evaluation of the Radiation Efficiency and the Noise Temperature of Low-Loss Antennas. *Maaskant, R.*, +, *LAWP 2009 1166-1170*

Grooves-Assisted Surface Wave Modulation in Two-Slot Array for Mutual Coupling Reduction and Gain Enhancement. *Huang, C.*, +, *LAWP 2009 912-915*

Millimeter-Wave Waveguide Slot-Array Antenna Covered by a Dielectric Slab and Arrayed Patches. *Hwang, J.-H.*, +, *LAWP 2009 1050-1053*

Quad-Band MIMO Antenna Array for Portable Wireless Communications Terminals. *Bhatti, R. A.*, +, *LAWP 2009 129-132*

Slot antennas

A Compact Dual-Band Dielectric Resonator Antenna Using a Parasitic Slot. *Chen, H.-M.*, +, *LAWP 2009 173-176*

A Coplanar Reconfigurable Folded Slot Antenna Without Bias Network for WLAN Applications. *Anagnostou, D. E.*, +, *LAWP 2009 1057-1060*

A New Printed Slot Loop Antenna With Tunable Strips for 2.4- and 5-GHz Wireless Applications. *Lee, Y.-C.*, +, *LAWP 2009 356-358*

A Tripolarization Antenna Fed by Proximity Coupling and Probe. *Zhong, H.*, +, *LAWP 2009 465-467*

An Improved Band-Rejection UWB Antenna With Resonant Patches and a Slot. *Jang, J.-W.*, +, *LAWP 2009 299-302*

Compact Broadband Slotted Rectangular Microstrip Antenna. *Deshmukh, A. A.*, +, *LAWP 2009 1410-1413*

Compact Dual-Band Hybrid Dielectric Resonator Antenna With Radiating Slot. *Lin, Y.-F.*, +, *LAWP 2009 6-9*

Compact Tapered Slot UWB Antenna With WLAN Band Rejection. *Medeiros, C. R.*, +, *LAWP 2009 661-664*

Compact Three-Port Integrated-Antenna-Filter Modules. *Lim, E. H.*, +, *LAWP 2009 486-489*

Coplanar Inverted-F Antenna With Open-End Ground Slots for Multiband Operation. *Razali, A. R.*, +, *LAWP 2009 1029-1032*

Correction to "Suppression of the Slot-Mode Radiation in a Slotted Waveguide Using Periodic Slot Perturbations". *Sutinjo, A.*, +, *LAWP 2009 1436*

Design of Frequency-Selective Surfaces Radome for a Planar Slotted Waveguide Antenna. *Chen, H.*, +, *LAWP 2009 1231-1233*

Design of Resistive Loading Vivaldi Antenna. *Deng, C.*, +, *LAWP 2009 240-243*

Directive Coupled Sectorial Loops Antenna for Ultrawideband Applications. *Elsherbini, A.*, +, *LAWP 2009 576-579*

Efficiency-Enhanced and Size-Reduced Coupled Twin Slots Capacitively Fed by Conductor-Backed Coplanar Waveguide. *Lee, C.-H.*, +, *LAWP 2009 1033-1035*

Employing EBG Structures in Multiantenna Systems for Improving Isolation and Diversity Gain. *Payandehjoo, K.*, +, *LAWP 2009 1162-1165*

Hybrid Integration of a Bowtie Slot Antenna and a Quantum Dot Mode-Locked Laser. *Kim, J. H.*, +, *LAWP 2009 1337-1340*

Investigation Into the Relationship Between Microstrip Patch Width and Efficiency. *Yong, S.*, +, *LAWP 2009 1171-1174*

MEMS-Switched, Frequency-Tunable Hybrid Slot/PIFA Antenna. *Liu, Z.*, +, *LAWP 2009 311-314*

Miniaturized Microstrip-Fed Tapered-Slot Antenna With Ultrawideband Performance. *Abbosh, A. M.*, +, *LAWP 2009 690-692*

Miniaturized Planar Annular Slot Antenna Design Utilizing Shorting Conducting Strip. *Ko, C.-H.*, +, *LAWP 2009 1360-1363*

Perturbed Square-Ring Slot Antenna With Reconfigurable Polarization. *Dorsey, W. M.*, +, *LAWP 2009 603-606*

Planar Substrate Integrated Waveguide Cavity-Backed Antenna. *Bohorquez, J. C.*, +, *LAWP 2009 1139-1142*

Printed Broadband Monopole Antenna for WLAN/WiMAX Applications. *Chen, I.-F.*, +, *LAWP 2009 472-474*

Slot Antennas With an Extended Ground for Multiple-Antenna Systems in Compact Wireless Devices. *Lai, M.-I.*, +, *LAWP 2009 19-22*

The Analysis of a Reconfigurable Antenna With a Rotating Feed Using Graph Models. *Costantine, J.*, +, *LAWP 2009 943-946*

Wideband Folded Feed L-Slot Folded Patch Antenna. *Lau, K. L.*, +, *LAWP 2009 340-343*

Wideband Printed Microstrip Antenna for Wireless Communications. *Sarin, V. P.*, +, *LAWP 2009 779-781*

Software radio

A Switch-Band Antenna for Software-Defined Radio Applications. *Manteghi, M.*, +, *LAWP 2009 3-5*

Solar cells

Meshed Patch Antennas Integrated on Solar Cells. *Turpin, T. W.*, +, *LAWP 2009 693-696*

Space division multiplexing

Link Performance Improvement Using Reconfigurable Multiantenna Systems. *Sukumar, C. R.*, +, *LAWP 2009 873-876*

Space-time codes

Link Performance Improvement Using Reconfigurable Multiantenna Systems. *Sukumar, C. R.*, +, *LAWP 2009 873-876*

Spatial filters

A Novel Miniaturized-Element Frequency Selective Surface Having a Stable Resonance. *Chiu, C.-N.*, +, *LAWP 2009 1175-1177*

Drift Denoising of Experimental TE Measurements for Imaging 2D PEC Cylinders. *Hassan, A. M.*, +, *LAWP 2009 1218-1222*

Spatial variables measurement

Broadband Space Time Measurements in Reverberation Chamber Including Comparison With Real Environment. *Hallbjorner, P.*, +, *LAWP 2009 1111-1114*

Spectral-domain analysis

Input Impedance and Resonant Frequency of a Printed Dipole With Arbitrary Length Embedded in Stratified Uniaxial Anisotropic Dielectrics. *Braaten, B. D.*, +, *LAWP 2009 806-810*

Speech recognition

Ultrawideband Speech Sensing. *Eid, A. M., +, LAMP 2009 1414-1417*

Spiral antennas

A Compact Transmission-Line Metamaterial Antenna With Extended Bandwidth. *Zhu, J., +, LAMP 2009 295-298*

A Miniature Spiral Diversity Antenna System With High Overall Gain Coverage and Low SAR. *Sayem, A. T. M., +, LAMP 2009 49-52*

A Novel Dual-Band Spiral Antenna for a Satellite and Terrestrial Communication System. *Chiu, C.-N., +, LAMP 2009 624-626*

An HIS-Based Spiral Antenna for Pattern Reconfigurable Applications. *Deo, P., +, LAMP 2009 196-199*

Low-Loss Wideband Multimodal Interferometric Antenna for DOA in Azimuth and Elevation. *Remez, J., +, LAMP 2009 898-902*

Spirals

Ultrawide Bandwidth Umbrella-Shaped Microstrip Monopole Antenna Using Spiral Artificial Magnetic Conductor (SAMC). *Elsheakh, D. N., +, LAMP 2009 1255-1258*

Splines (mathematics)

A Novel Planar Conformal Antenna Designed With Splines. *Koulouridis, S., +, LAMP 2009 34-36*

Spread spectrum communication

Field Probes Performance for the Measurement of Spread-Spectrum Radio Signals. *Trincho, D., +, LAMP 2009 494-497*

Sputtered coatings

Design of Sputter-Deposited Multilayer Thin Films Planar Inverted-F Antenna for Mobile Terminals. *Park, B.-S., +, LAMP 2009 1143-1145*

Stability

Stability of Narrowband Dynamic Body Area Channel. *Zhang, J., +, LAMP 2009 53-56*

Stereolithography

Integration of Single-Mode Photonic Crystal Clad Waveguides With Monolithically Constructed Ceramic Subsystems. *Brakora, K. F., +, LAMP 2009 433-436*

Stochastic processes

Transparent Boundary Condition for the Parabolic Equation Modeled by the 4RW. *Janaswamy, R., +, LAMP 2009 23-26*

Strip lines

A Ka-Band Dual-Frequency Radiator for Array Applications. *Arneri, E., +, LAMP 2009 894-897*

Multiband Dual Spiral Stripline-Loaded Monopole Antenna. *Nguyen, T. K., +, LAMP 2009 57-59*

Stripline

Design of a Tapered Balun for Broadband Arrays With Closely Spaced Elements. *Xia, T., +, LAMP 2009 1291-1294*

Strips

Hard Surfaces to Reduce Blockage in Thick Cylinders. *Rajo-Iglesias, E., +, LAMP 2009 1402-1405*

Substrate integrated waveguides

A 4×4 Ridge Substrate Integrated Waveguide (RSIW) Slot Array Antenna. *Ding, Y., +, LAMP 2009 561-564*

A Substrate Integrated Waveguide Circular Polarized Slot Radiator and Its Linear Array. *Chen, P., +, LAMP 2009 120-123*

High-Resolution Probes for Near-Field Measurements of Reflectarray Antennas. *Dieter, S., +, LAMP 2009 157-160*

Substrate-Integrated Waveguide Ku-Band Cavity-Backed 2×2 Microstrip Patch Array Antenna. *Awida, M. H., +, LAMP 2009 1054-1056*

Substrates

A Compact Meander-Line UHF RFID Tag Antenna Loaded With Elements Found in Right/Left-Handed Coplanar Waveguide Structures. *Braaten, B. D., +, LAMP 2009 1158-1161*

A Miniaturized Dual-Band Frequency Selective Surface (FSS) With Closed Loop and Its Complementary Pattern. *Hu, X.-D., +, LAMP 2009 1374-1377*

Compact Broadband Slotted Rectangular Microstrip Antenna. *Deshmukh, A. A., +, LAMP 2009 1410-1413*

On the Bandwidth of High-Impedance Frequency Selective Surfaces. *Costa, F., +, LAMP 2009 1341-1344*

Planar Substrate Integrated Waveguide Cavity-Backed Antenna. *Bohorquez, J. C., +, LAMP 2009 1139-1142*

Surface electromagnetic waves

Grooves-Assisted Surface Wave Modulation in Two-Slot Array for Mutual Coupling Reduction and Gain Enhancement. *Huang, C., +, LAMP 2009 912-915*

Planar Surface-Wave Sources and Metallic Grating Lenses for Controlled Guided-Wave Propagation. *Podilchak, S. K., +, LAMP 2009 371-374*

Surface emitting lasers

Hybrid Integration of a Bowtie Slot Antenna and a Quantum Dot Mode-Locked Laser. *Kim, J. H., +, LAMP 2009 1337-1340*

Surface impedance

On the Bandwidth of High-Impedance Frequency Selective Surfaces. *Costa, F., +, LAMP 2009 1341-1344*

Surface waves

Difficulties in Recognizing Ill-Posed Electromagnetic Problems Involving Wrong Effective Models of Media. *Bozza, G., +, LAMP 2009 1283-1287*

Far-Field Radiation Patterns of Terahertz Wire Waveguides. *Liang, H., +, LAMP 2009 1272-1274*

Hard Surfaces to Reduce Blockage in Thick Cylinders. *Rajo-Iglesias, E., +, LAMP 2009 1402-1405*

Switching networks

Measurement-Based Mutual Information Analysis of MIMO Antenna Selection in the 60-GHz Band. *Ranvier, S., +, LAMP 2009 686-689*

Synthetic aperture radar

Near-Space Wide-Swath Radar Imaging With Multiaperture Antenna. *Wang, W.-Q., +, LAMP 2009 461-464*

T**Target tracking**

Through-Wall Imaging of Moving Targets Using UWB Random Noise Radar. *Wang, H., +, LAMP 2009 802-805*

Telecommunication channels

A New CLEAN Algorithm for Angle of Arrival Denoising. *Akhdar, O., +, LAMP 2009 478-481*

Telecommunication networks

Multibeam Antenna for Telecommunications Networks Using Cylindrical EBG Structure. *Chreim, H., +, LAMP 2009 665-669*

Telecommunication standards

Planar Hexa-Band Inverted-F Antenna for Portable Device Applications. *Chiu, C.-W., +, LAMP 2009 1099-1102*

Telecommunication switching

A Low-Profile Branched Monopole Laptop Reconfigurable Multiband Antenna for Wireless Applications. *Zhang, C., +, LAMP 2009 216-219*

Telemedicine

RF Coupling in a 433-MHz Biotelemetry System for an Artificial Hip. *Weiss, M. D., +, LAMP 2009 916-919*

Terahertz wave devices

Integration of Single-Mode Photonic Crystal Clad Waveguides With Monolithically Constructed Ceramic Subsystems. *Brakora, K. F., +, LAMP 2009 433-436*

Thin film devices

Design of Sputter-Deposited Multilayer Thin Films Planar Inverted-F Antenna for Mobile Terminals. *Park, B.-S., +, LAMP 2009 1143-1145*

Waveguides Composed of Metafilms/Metasurfaces: The Two-Dimensional Equivalent of Metamaterials. *Holloway, C. L., +, LAMP 2009 525-529*

Three dimensional displays

3D Image Reconstruction in Microwave Tomography Using an Efficient FDTD Model. *Fhager, A., +, LAMP 2009 1353-1356*

Time domain analysis

3D Image Reconstruction in Microwave Tomography Using an Efficient FDTD Model. *Fhager, A., +, LAMP 2009 1353-1356*

FDTD Numerical Tests of the Convolutional PML at Extremely Low Frequencies. *Wagner, C. L., +, LAMP 2009 1398-1401*

Tradeoff of Transmitted Power in Time-Reversed Impulse Radio Ultrawideband Communications. *Liu, X., +, LAMP 2009 1426-1429*

Ultrawideband Speech Sensing. *Eid, A. M., +, LAMP 2009 1414-1417*

A Further Study on the Use of the Alternating-Direction Implicit Scheme for the Finite-Element Time-Domain Method. *Du, L., +, LAMP 2009 775-778*

A Switch-Band Antenna for Software-Defined Radio Applications. *Manteghi, M., +, LAMP 2009 3-5*

Transceivers

916 MHz F-Inverted Compact Antenna (FICA) for Highly Integrated Transceivers. *Yang, B., +, LAMP 2009 181-184*

A Fraunhofer-Based Approach for the Assessment of the Field Radiated in the Fresnel Region of an Antenna. *Trincho, D., +, LAMP 2009 30-33*

Transfer functions

Transparent Boundary Condition for the Parabolic Equation Modeled by the 4RW. *Janaswamy, R.*, +, *LAWP 2009 23-26*

Transient response

Broadband Space Time Measurements in Reverberation Chamber Including Comparison With Real Environment. *Hallbjorner, P.*, +, *LAWP 2009 1111-1114*

Integrated Bluetooth and UWB Antenna. *Yildirim, B. S.*, +, *LAWP 2009 149-152*

Novel Planar UWB Monopole Antenna With Triple Band-Notched Characteristics. *Li, W. T.*, +, *LAWP 2009 1094-1098*

Stability of Narrowband Dynamic Body Area Channel. *Zhang, J.*, +, *LAWP 2009 53-56*

Transmission line measurements

A Millimeter-Wave Microstrip Antenna Array on Ultra-Flexible Micromachined Polydimethylsiloxane (PDMS) Polymer. *Hage-Ali, S.*, +, *LAWP 2009 1306-1309*

Compact Antenna Array With Port Decoupling for LTE-Standardized Mobile Phones. *Bhatti, R. A.*, +, *LAWP 2009 1430-1433*

Transmission line theory

Signal Flow Graph for a Probe-Fed Microstrip Patch Antenna. *Ruyle, J. E.*, +, *LAWP 2009 935-938*

Transmission lines

A Broadband Dual-Mode Monopole Antenna Using NRI-TL Metamaterial Loading. *Antoniades, M. A.*, +, *LAWP 2009 258-261*

A Compact Transmission-Line Metamaterial Antenna With Extended Bandwidth. *Zhu, J.*, +, *LAWP 2009 295-298*

A Concept for a Lens Configuration for 360° Scanning. *Zaghloul, A. I.*, +, *LAWP 2009 985-988*

A Design Strategy for Large Dielectric Radome Compensated Joints. *Virone, G.*, +, *LAWP 2009 546-549*

A Novel Broadband Plate-Loaded Planar Monopole Antenna. *Mazinani, S. M.*, +, *LAWP 2009 1123-1126*

Invisibility Cloaks Modeled by Anisotropic Metamaterials Based on Inductor-Capacitor Networks. *Liu, X.*, +, *LAWP 2009 1154-1157*

Left-Handed/Right-Handed Transmission Line Subwavelength Cavity Resonators. *Liao, S.*, +, *LAWP 2009 80-83*

Transmitting antennas

A Combinatorial Method for Antenna Array Design in Minimum Redundancy MIMO Radars. *Dong, J.*, +, *LAWP 2009 1150-1153*

A Fraunhofer-Based Approach for the Assessment of the Field Radiated in the Fresnel Region of an Antenna. *Trincherio, D.*, +, *LAWP 2009 30-33*

Design and Evaluation of a Compact Antenna for Implant-to-Air UWB Communication. *Dissanayake, T.*, +, *LAWP 2009 153-156*

Temporal Dispersion Characterization of Over-Building Propagation Applied to Iso-Frequency Repeaters. *Rubio, L.*, +, *LAWP 2009 509-512*

The Use of Frequency-Orthogonal Pseudonoise (FOPN) Sounding Signals for Identifying Transmissions From Different Transmit Antennas. *Dahman, G. S.*, +, *LAWP 2009 657-660*

Transparency

Meshed Patch Antennas Integrated on Solar Cells. *Turpin, T. W.*, +, *LAWP 2009 693-696*

Tumors

Spectral Difference Between Microwave Radar and Microwave-Induced Thermoacoustic Signals. *Zhu, K. G.*, +, *LAWP 2009 1259-1262*

U**UHF antennas**

A Compact Meander-Line UHF RFID Tag Antenna Loaded With Elements Found in Right/Left-Handed Coplanar Waveguide Structures. *Braaten, B. D.*, +, *LAWP 2009 1158-1161*

A Dual-Mode Quadrature-Fed Wideband Circularly Polarized Dielectric Resonator Antenna. *Li, B.*, +, *LAWP 2009 1036-1038*

A New Printed Slot Loop Antenna With Tunable Strips for 2.4- and 5-GHz Wireless Applications. *Lee, Y.-C.*, +, *LAWP 2009 356-358*

A Novel Broadband Plate-Loaded Planar Monopole Antenna. *Mazinani, S. M.*, +, *LAWP 2009 1123-1126*

A Novel Compact Dual-Linear Polarized UWB Antenna for VHF/UHF Applications. *Osaretin, I. A.*, +, *LAWP 2009 145-148*

A Novel Conformal RFID-Enabled Module Utilizing Inkjet-Printed Antennas and Carbon Nanotubes for Gas-Detection Applications. *Yang, L.*, +, *LAWP 2009 653-656*

A Novel Modified Multiband Planar Inverted-F Antenna. *Yu, Y.-C.*, +, *LAWP 2009 189-192*

A Novel Reduced-Size Edge-Shorted Patch Antenna for UHF Band Applications. *Chen, I.-F.*, +, *LAWP 2009 475-477*

A Small Dual-Band Inverted-F Antenna With a Twisted Line. *Kim, J. H.*, +, *LAWP 2009 307-310*

Compact Multiband Folded 3-D Monopole Antenna. *Kanj, H.*, +, *LAWP 2009 185-188*

Conformal Asymmetric Meandered Flare (AMF) Antenna for Body-Worn Applications. *Psychoudakis, D.*, +, *LAWP 2009 931-934*

Demonstration of Impedance Matching Using a mu-Negative (MNG) Metamaterial. *Gregor, R. B.*, +, *LAWP 2009 92-95*

Design and Experimental Verification of a 3D Magnetic EZ Antenna at 300 MHz. *Ziolkowski, R. W.*, +, *LAWP 2009 989-993*

Design and Realization of a Linearly Polarized Eleven Feed for 1 10 GHz. *Yang, J.*, +, *LAWP 2009 64-68*

Design of Resistive Loading Vivaldi Antenna. *Deng, C.*, +, *LAWP 2009 240-243*

Dual-Band Probe-Fed Stacked Patch Antenna for GNSS Applications. *Wang, Z.*, +, *LAWP 2009 100-103*

Dual-Band Spline-Shaped PCB Antenna for Wi-Fi Applications. *Lizzi, L.*, +, *LAWP 2009 616-619*

Dual-Frequency Printed Dipole Loaded With Split Ring Resonators. *Herrera-Martinez, F. J.*, +, *LAWP 2009 137-140*

Echo-Cancellation Technique With Recursive Data in Nonanechoic Test Sites. *Moon, J.-I.*, +, *LAWP 2009 558-560*

Integrated Bluetooth and UWB Antenna. *Yildirim, B. S.*, +, *LAWP 2009 149-152*

Integrated Dual Planar Inverted-F Antenna With Enhanced Isolation. *Lee, C.-H.*, +, *LAWP 2009 963-965*

Low-Profile Integrated Microstrip Antenna for GPS-DSRC Application. *Rafi, G. Z.*, +, *LAWP 2009 44-48*

Quad-Band MIMO Antenna Array for Portable Wireless Communications Terminals. *Bhatti, R. A.*, +, *LAWP 2009 129-132*

Retrodirective Antenna Spatial Data Protection. *Fusco, V. F.*, +, *LAWP 2009 490-493*

Tapered Meander Line Antenna for Maximum Efficiency and Minimal Environmental Impact. *Galehdar, A.*, +, *LAWP 2009 244-247*

Twin Orthogonally Polarized UWB Aperture Antenna Elements With Optimized Profile Feed for Optimal Adaptation. *Martinez-Fernandez, J.*, +, *LAWP 2009 517-521*

Ultrawideband Dielectric Resonator Antenna for DVB-H and GSM Applications. *Huitema, L.*, +, *LAWP 2009 1021-1027*

Wideband Planar Patch Antenna Array on Cylindrical Surface. *Abbaspour, M.*, +, *LAWP 2009 394-397*

UHF radio propagation

UHF Propagation in the Magnetic Resonance Bore. *Black, J. A.*, +, *LAWP 2009 869-871*

Ultra wideband antennas

A Novel Compact Dual-Linear Polarized UWB Antenna for VHF/UHF Applications. *Osaretin, I. A.*, +, *LAWP 2009 145-148*

A Small Printed Quasi-Self-Complementary Antenna for Ultrawideband Systems. *Guo, L.*, +, *LAWP 2009 554-557*

A Truncated Conical Dielectric Resonator Antenna for Body-Area Network Applications. *Almpanis, G.*, +, *LAWP 2009 279-282*

An Improved Band-Rejection UWB Antenna With Resonant Patches and a Slot. *Jang, J.-W.*, +, *LAWP 2009 299-302*

Antenna Radiation Efficiency Measurement in an Ultrawide Frequency Range. *Miskovsky, P.*, +, *LAWP 2009 72-75*

Application of Bionics in Antenna Radar Cross Section Reduction. *Jiang, W.*, +, *LAWP 2009 1275-1278*

Compact Tapered Slot UWB Antenna With WLAN Band Rejection. *Medeiros, C. R.*, +, *LAWP 2009 661-664*

Compact Ultrawideband UHF Array Antenna for Through-Wall Radar Applications. *Ren, Y.-J.*, +, *LAWP 2009 1302-1305*

Compact UWB Antenna With I-Shaped Band-Notch Parasitic Element for Laptop Applications. *Choi, N.*, +, *LAWP 2009 580-582*

Compact UWB Planar Monopole Antenna. *Naser-Moghadasi, M.*, +, *LAWP 2009 1382-1385*

Design and Evaluation of a Compact Antenna for Implant-to-Air UWB Communication. *Dissanayake, T.*, +, *LAWP 2009 153-156*

- Design and Optimization of Compact Balanced Antipodal Staircase Bow-Tie Antenna. *Dadgarpour, A.*, +, *LAWP 2009 1135-1138*
- Directive Coupled Sectorial Loops Antenna for Ultrawideband Applications. *Elsherbini, A.*, +, *LAWP 2009 576-579*
- Drift Denoising of Experimental TE Measurements for Imaging 2D PEC Cylinders. *Hassan, A. M.*, +, *LAWP 2009 1218-1222*
- Dual-Orthogonal Polarized Antenna for UWB-IR Technology. *Adamiuk, G.*, +, *LAWP 2009 981-984*
- Enhancement of Microstrip Monopole Antenna Bandwidth by Using EBG Structures. *Elsheakh, D. N.*, +, *LAWP 2009 959-962*
- Integrated Bluetooth and UWB Antenna. *Yildirim, B. S.*, +, *LAWP 2009 149-152*
- Miniaturized Microstrip-Fed Tapered-Slot Antenna With Ultrawideband Performance. *Abbosh, A. M.*, +, *LAWP 2009 690-692*
- New Pawn-Shaped Dielectric Ring Resonator Loaded Hybrid Monopole Antenna for Improved Ultrawide Bandwidth. *Guha, D.*, +, *LAWP 2009 1178-1181*
- Novel Planar UWB Monopole Antenna With Triple Band-Notched Characteristics. *Li, W. T.*, +, *LAWP 2009 1094-1098*
- Performances of UWB Wheeler Cap and Reverberation Chamber to Carry Out Efficiency Measurements of Narrowband Antennas. *Le Fur, G.*, +, *LAWP 2009 332-335*
- PIFA Bandwidth Enhancement by Changing the Widths of Feed and Shorting Plates. *Chattha, H. T.*, +, *LAWP 2009 637-640*
- Small Square Monopole Antenna for UWB Applications With Variable Frequency Band-Notch Function. *Ojaroudi, M.*, +, *LAWP 2009 1061-1064*
- Small Square Monopole Antenna With Inverted T-Shaped Notch in the Ground Plane for UWB Application. *Ojaroudi, M.*, +, *LAWP 2009 728-731*
- Through-Wall Imaging of Moving Targets Using UWB Random Noise Radar. *Wang, H.*, +, *LAWP 2009 802-805*
- Twin Orthogonally Polarized UWB Aperture Antenna Elements With Optimized Profile Feed for Optimal Adaptation. *Martinez-Fernandez, J.*, +, *LAWP 2009 517-521*
- Ultrawideband Dielectric Resonator Antenna for DVB-H and GSM Applications. *Huitema, L.*, +, *LAWP 2009 1021-1027*
- Ultrawideband MIMO/Diversity Antennas With a Tree-Like Structure to Enhance Wideband Isolation. *Zhang, S.*, +, *LAWP 2009 1279-1282*
- Ultra wideband communication**
- Coplanar Waveguide-Fed Rectangular Antenna With an Inverted-L Stub for Ultrawideband Communications. *Lin, W.-P.*, +, *LAWP 2009 228-231*
- Path-Loss and Time-Dispersion Parameters of UWB Signals in a Military Airplane. *Spiliotopoulos, C. G.*, +, *LAWP 2009 790-793*
- Small Square Monopole Antenna for UWB Applications With Variable Frequency Band-Notch Function. *Ojaroudi, M.*, +, *LAWP 2009 1061-1064*
- Ultrawideband Suppression of Ground Bounce Noise in Multilayer PCB Using Locally Embedded Planar Electromagnetic Band-Gap Structures. *Li, L.*, +, *LAWP 2009 740-743*
- Ultra wideband radar**
- Through-Wall Imaging of Moving Targets Using UWB Random Noise Radar. *Wang, H.*, +, *LAWP 2009 802-805*
- Ultra wideband technology**
- Subwavelength Target Detection Using Ultrawideband Time-Reversal Techniques With a Multilayered Dielectric Slab. *Liao, T.-H.*, +, *LAWP 2009 835-838*
- Tradeoff of Transmitted Power in Time-Reversed Impulse Radio Ultrawideband Communications. *Liu, X.*, +, *LAWP 2009 1426-1429*
- Underwater acoustic communication**
- Dual Problem Space FDTD Simulation for Underwater ELF Applications. *Xia, Y.*, +, *LAWP 2009 498-501*
- Underwater acoustic propagation**
- Dual Problem Space FDTD Simulation for Underwater ELF Applications. *Xia, Y.*, +, *LAWP 2009 498-501*

V

VHF antennas

- A Novel Compact Dual-Linear Polarized UWB Antenna for VHF/UHF Applications. *Osaretin, I. A.*, +, *LAWP 2009 145-148*
- Design and Experimental Verification of a 3D Magnetic EZ Antenna at 300 MHz. *Ziolkowski, R. W.*, +, *LAWP 2009 989-993*

VHF radio propagation

- Investigation of Short-Range Radiowave Propagation at HF/VHF Frequencies in a Forested Environment. *Li, Y.*, +, *LAWP 2009 1182-1185*

W

Wave equations

- An Implicit 4-Stage ADI Wave-Equation PML Algorithm for 2-D FDTD Simulations. *Ramadan, O.*, +, *LAWP 2009 391-393*

Waveguide antenna arrays

- A 4×4 Ridge Substrate Integrated Waveguide (RSIW) Slot Array Antenna. *Ding, Y.*, +, *LAWP 2009 561-564*
- Design of Dielectric-Covered Planar Arrays of Longitudinal Slots. *Casula, G. A.*, +, *LAWP 2009 752-755*
- Inclusion of the Feeding Network Effects in the Generalized-Scattering-Matrix Formulation of a Finite Array. *Rubio, J.*, +, *LAWP 2009 819-822*
- Propagation and Field Excitation in Metal-Strip Grating Waveguides: Homogeneous Model and Full-Wave Analysis. *Lovat, G.*, +, *LAWP 2009 708-711*

Waveguide antennas

- Dual-Band Full-Space Scanning Leaky-Wave Antenna Based on Ferrite-Loaded Open Waveguide. *Kodera, T.*, +, *LAWP 2009 1202-1205*
- Near-Field Focusing With a Corrugated Surface. *Imani, M. F.*, +, *LAWP 2009 421-424*
- Suppression of the Slot-Mode Radiation in a Slitted Waveguide Using Periodic Slot Perturbations. *Sutinjo, A.*, +, *LAWP 2009 550-553*

Waveguide couplers

- Coupling Between Waveguide-Fed Planar Slot Arrays. *Rengarajan, S. R.*, +, *LAWP 2009 429-432*
- Planar Surface-Wave Sources and Metallic Grating Lenses for Controlled Guided-Wave Propagation. *Podilchak, S. K.*, +, *LAWP 2009 371-374*

Waveguide filters

- Size Reduction and Bandwidth Enhancement of a Waveguide Bandpass Filter Using Fractal-Shaped Irises. *Oloumi, D.*, +, *LAWP 2009 1214-1217*

Waveguides

- Sierpinski Pyramidal Antenna Loaded With a Cutoff Open-Ended Waveguide. *Hebib, S.*, +, *LAWP 2009 352-355*

Weibull distribution

- Statistical Model for 4.5-GHz Narrowband On-Body Propagation Channel With Specific Actions. *Kim, M.*, +, *LAWP 2009 1250-1254*

Wideband

- A New Reconfigurable Antenna Design for Cognitive Radio. *Tawk, Y.*, +, *LAWP 2009 1378-1381*
- Ultrawideband MIMO/Diversity Antennas With a Tree-Like Structure to Enhance Wideband Isolation. *Zhang, S.*, +, *LAWP 2009 1279-1282*

WiMax

- A New Printed Antenna for Multiband Wireless Applications. *Lee, Y.-C.*, +, *LAWP 2009 402-405*
- Coplanar Inverted-F Antenna With Open-End Ground Slots for Multiband Operation. *Razali, A. R.*, +, *LAWP 2009 1029-1032*
- Multifed Sectorial EBG Antenna for WiMAX Applications. *Serhal, D.*, +, *LAWP 2009 620-623*
- Planar Hexa-Band Inverted-F Antenna for Portable Device Applications. *Chiu, C.-W.*, +, *LAWP 2009 1099-1102*
- Printed Broadband Monopole Antenna for WLAN/WiMAX Applications. *Chen, I.-F.*, +, *LAWP 2009 472-474*

Wire

- Far-Field Radiation Patterns of Terahertz Wire Waveguides. *Liang, H.*, +, *LAWP 2009 1272-1274*

Wire antennas

- Weighted Laguerre Polynomials-Finite Difference Method for Time-Domain Modeling of Thin Wire Antennas in a Loaded Cavity. *Zhao, H.*, +, *LAWP 2009 1131-1134*

Wireless channels

- A 3D-to-2D Transform Algorithm for Incorporating 3D Antenna Radiation Patterns in SCM. *Kanj, H.*, +, *LAWP 2009 815-818*
- A DVBH/GSM/UMTS Planar Antenna for Multimode Wireless Devices. *Lizzi, L.*, +, *LAWP 2009 568-571*
- Channel Sounding of Loaded Reverberation Chamber for Over-the-Air Testing of Wireless Devices Coherence Bandwidth Versus Average Mode Bandwidth and Delay Spread. *Chen, X.*, +, *LAWP 2009 678-681*
- Derivation and Analysis of Spatial Correlation for 2×2 MIMO System. *ManhTuan, D.*, +, *LAWP 2009 409-413*
- Temporal Dispersion Characterization of Over-Building Propagation Applied to Iso-Frequency Repeaters. *Rubio, L.*, +, *LAWP 2009 509-512*
- The Use of Frequency-Orthogonal Pseudonoise (FOPN) Sounding Signals for Identifying Transmissions From Different Transmit Antennas. *Dahman, G. S.*, +, *LAWP 2009 657-660*

Wireless communication

- Eigen-Analysis of Lossy Compact Multielement Antenna Systems. *Papamichael, V. C.*, +, *LAWP 2009 1334-1336*
- Experimental Verification of Z Antennas at UHF Frequencies. *Ziolkowski, R. W.*, +, *LAWP 2009 1329-1333*
- Statistical Model for 4.5-GHz Narrowband On-Body Propagation Channel With Specific Actions. *Kim, M.*, +, *LAWP 2009 1250-1254*
- Uncoupled Impedance Matching for Capacity Maximization of Compact MIMO Arrays. *Tsen, W. F.*, +, *LAWP 2009 1295-1298*

Wireless LAN

- A Compact Planar MIMO Antenna System of Four Elements With Similar Radiation Characteristics and Isolation Structure. *Li, H.*, +, *LAWP 2009 1107-1110*
- A Coplanar Reconfigurable Folded Slot Antenna Without Bias Network for WLAN Applications. *Anagnostou, D. E.*, +, *LAWP 2009 1057-1060*
- A Hybrid Prefractal Three-Band Antenna for Multistandard Mobile Wireless Applications. *Azaro, R.*, +, *LAWP 2009 905-908*
- A New Printed Antenna for Multiband Wireless Applications. *Lee, Y.-C.*, +, *LAWP 2009 402-405*
- A New Printed Slot Loop Antenna With Tunable Strips for 2.4- and 5-GHz Wireless Applications. *Lee, Y.-C.*, +, *LAWP 2009 356-358*
- Compact Tapered Slot UWB Antenna With WLAN Band Rejection. *Medeiros, C. R.*, +, *LAWP 2009 661-664*
- Coplanar Inverted-F Antenna With Open-End Ground Slots for Multiband Operation. *Razali, A. R.*, +, *LAWP 2009 1029-1032*
- Design of a Novel High-Gain Dual-Band Antenna for WLAN Applications. *He, X.*, +, *LAWP 2009 798-801*
- Dual Printed Antenna for Wi-Fi Applications. *Avila-Navarro, E.*, +, *LAWP 2009 596-598*
- Dual-Band Antenna With Fractal-Based Ground Plane for WLAN Applications. *Gemio, J.*, +, *LAWP 2009 748-751*
- Dual-Band Spline-Shaped PCB Antenna for Wi-Fi Applications. *Lizzi, L.*, +, *LAWP 2009 616-619*
- Investigation of a Novel Wideband Feeding Technique for Dielectric Ring Resonator Antennas. *Chang, W.*, +, *LAWP 2009 348-351*
- Pattern and Polarization Diversity Antenna With High Isolation for Portable Wireless Devices. *Wang, X.*, +, *LAWP 2009 209-211*
- Planar, Compact Dual-Band Antenna for Wireless LAN Applications. *Midrio, M.*, +, *LAWP 2009 1234-1237*

- Printed Broadband Monopole Antenna for WLAN/WiMAX Applications. *Chen, I.-F.*, +, *LAWP 2009 472-474*
- Resonator-Loaded Dual-Band Monopole for Universal WLAN. *Gemio, J.*, +, *LAWP 2009 736-739*
- Slot Antennas With an Extended Ground for Multiple-Antenna Systems in Compact Wireless Devices. *Lai, M.-I.*, +, *LAWP 2009 19-22*

Wireless sensor networks

- A Novel Conformal RFID-Enabled Module Utilizing Inkjet-Printed Antennas and Carbon Nanotubes for Gas-Detection Applications. *Yang, L.*, +, *LAWP 2009 653-656*

Wires

- Analysis of a Traveling-Wave Waveguide Array With Narrow-Wall Slots Using Higher Order Basis Functions in Method of Moments. *Zhao, X.-W.*, +, *LAWP 2009 1390-1393*

Y**Yagi antenna arrays**

- A Lumped-Circuit Model for a Triband Trapped Dipole Array Part 1: Model Description. *Coburn, W. O.*, +, *LAWP 2009 14-18*
- A Modified Planar Quasi-Yagi Antenna for Wireless Communication Applications. *Gorbachev, A. P.*, +, *LAWP 2009 1091-1093*
- Design of a Dual-Band, Compact Yagi Antenna Over an EBG Ground Plane. *Lim, S.*, +, *LAWP 2009 88-91*
- Design of a Multidirectional, High-Gain Compact Yagi Antenna. *Lim, S.*, +, *LAWP 2009 418-420*
- Novel Antenna Concept for Compact Millimeter-Wave Automotive Radar Sensors. *Beer, S.*, +, *LAWP 2009 771-774*
- Switched Beam Antenna Based on RF MEMS SPDT Switch on Quartz Substrate. *Cheng, S.*, +, *LAWP 2009 383-386*

Z**Zinc compounds**

- DVB-H Antenna Design Using Folder-Type Chassis and Coupling Element on a Ferrite. *Rhyu, H.*, +, *LAWP 2009 453-456*