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2009 Index

IEEE Antennas and Wireless Propagation Letters

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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.

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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

- Constantine, 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
Constantine, 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* Trincheri, D., *LAWP* 2009 224-227
d'Amore, G., *see* Trincheri, 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* Zaghloul, 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., Zaghloul, 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* Oguçu, 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* Antoniades, 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., Elsadek, 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., Elsadek, H. A., Abdallah, E. A., Iskander, M. F., and El-henawy, 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

+ Check author entry for coauthors

- Fhager, A.**, Padhi, S. K., and Howard, J., 3D Image Reconstruction in Mi-crowave 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 Rasshofer, 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* Almanpis, 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* Almanpis, 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
Galendar, 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
Garca-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* Herranz-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

- Goldsman, 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*
- Greegor, 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.**, Hajishemmi, 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* Greegor, 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* Phager, 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
- Ilvonen, 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-Arraying 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* Elsheikh, D. N., *LAWP 2009* 959-962
- Iskander, M. F.**, *see* Li, Y., *LAWP 2009* 1069-1071
- Iskander, M. F.**, *see* Elsheikh, 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

+ Check author entry for coauthors

- 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* Spiliopoulos, 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* Tsien, 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* Amadikpe, 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 Radiowave 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 DVBF/GSM/UMTS Planar Antenna for Multimode Wireless Devices; *LAWP 2009* 568-571
- Loison, R.**, *see* Salti, H., *LAWP 2009* 363-366
- Longobardi, F.**, *see* Trinchero, D., *LAWP 2009* 224-227
- Longobardi, F.**, *see* Trinchero, 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
- Mazinanian, 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
- Mirshekhar-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
- Mittra, R.**, *see* Ogucu, G., *LAWP 2009* 457-460
- Mohajer, M.**, *see* Rafi, G. Z., *LAWP 2009* 44-48
- Mohanam, 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 Tijhuis, 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., Rosta, 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

+ Check author entry for coauthors

- 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
Osaretin, I. A., Torres, A., and Chen, C.-C., A Novel Compact Dual-Linear Polarized UWB Antenna for VHF/UHF Applications; *LAWP* 2009 145-148
Ottanello, M., *see* Bozza, G., *LAWP* 2009 1283-1287

P

- Padhi, S. K.**, *see* Phager, A., *LAWP* 2009 1353-1356
Pack, 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 Levitan, 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

- Peverini, O. A.**, *see* Addamo, G., *LAWP 2009 1418-1421*
Peverini, 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., Freudorfer, 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*

+ Check author entry for coauthors

- 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-Bernal, R., Mesa, F., Baccarelli, P., and Burghignoli, P., Excitation of a Periodic Microstrip Line b>y 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*
Salvi, 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* Elsherbin, 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*
Sauvage, R., *see* Tentillier, N., *LAWP 2009 701-704*
Sauvage, R., *see* Jamaluddin, M. H., *LAWP 2009 697-700*
Sauvage, 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* Trincheri, 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., Chantala, R., Drouet, J., and Jecko, B., Multifield 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
- Somedra, 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
- Splingart, 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* Trincheri, D., *LAWP 2009* 30-33
- Stefanelli, R.**, *see* Trincheri, D., *LAWP 2009* 224-227
- Stefanelli, R.**, *see* Trincheri, 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 Slotted 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 Slotted 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., Splingart, 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 40 GHz; *LAWP 2009* 1210-1213
- Trincheri, 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
- Trincheri, D.**, Stefanelli, R., Longobardi, F., Galardini, A., Fiorelli, B., d'Amore, G., Anglesio, L., Benedetto, A., Trincheri, 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
- Trincheri, D.**, Stefanelli, R., Longobardi, F., Galardini, A., Fiorelli, B., d'Amore, G., Anglesio, L., Benedetto, A., Trincheri, S., Borsero, M., and Vizio, G., Field Probes Performance for the Measurement of Spread-Spectrum Radio Signals; *LAWP 2009* 494-497
- Trincheri, S.**, *see* Trincheri, D., *LAWP 2009* 224-227
- Trincheri, S.**, *see* Trincheri, 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* Almanpis, 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* Trinchero, 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

Vettikalladi, H., Lafond, O., and Himdi, M., High-Efficient and High-Gain Substrate 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-Moghadasi, 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* Trinchero, D., *LAWP 2009* 224-227

Vizio, G., *see* Trinchero, 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

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 Metze, G., 916 MHz F-Inverted Compact Antenna (FICA) for Highly Integrated Transceivers; *LAWP* 2009 181-184
Yang, J., Chen, X., Wade Falk, N., and Kildal, P.-S., Design and Realization of a Linearly Polarized Eleven Feed for 1.10 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
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- 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
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- ### 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. *Zaghlool, 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. *Trincheri, 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. *Hajj, 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. *Herai-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. *Stakavara, K.*, +, *LAWP 2009 124-128*

- Modified TM₀₂₀ 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 Slotted 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. *Trinchero, 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 Slotted 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. *Liberi, 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. *Almanis, 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 DVBT/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. *Foroozesh, 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 DVBT/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. *Trinchero, 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. *Almanpis, 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. *Pampamichael, 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. *Amadikpe, 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. *Almpantis, 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 DVBT/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 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. *Herai-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. *Brautens, 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
- Multifield 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 Quadrupolarization 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*

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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. *Coetze, 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-Bernal, 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. *Trinchero, 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. *Trinchero, 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. *Coetze, 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. *Trinchero, 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. *Amadikpe, 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 Multimodeled 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. *Coetze, J. C., +, LAWP 2009 291-294*
 - Electromagnetic Scattering From Multiple Slant Strips. *Ock, J. S., +, LAWP 2009 40-43*
 - Excitation of Plane Waves for 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 Ultrawide-band 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. *Vironne, 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 1 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*

Miniatirized 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 Miniatirized 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., +, LAWP 2009 951-954*
- Frequency-Selective Surface to Prevent Interference Between Radar and SATCOM Antennas. *Monni, S., +, LAWP 2009 220-223*
- On the Bandwidth of High-Impedance Frequency Selective Surfaces. *Costa, F., +, LAWP 2009 1341-1344*

G**Gain**

- Characterization and Modeling of Dynamic On-Body Propagation at 4.5 GHz. *Zhen, B., +, LAWP 2009 1263-1267*
- High-Efficient and High-Gain Superstrate Antenna for 60-GHz Indoor Communication. *Vettikalladi, H., +, LAWP 2009 1422-1425*
- 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*

Gamma distribution

- 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*

Gas sensors

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

Geographic information systems

- Use of Geospatial Resources for Radio Propagation Prediction in Urban Areas. *Yun, Z., +, LAWP 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., +, LAWP 2009 379-382*

Geometry

- A Ku-K Dual-Band Compact Circular Corrugated Horn for Satellite Communications. *Addamo, G., +, LAWP 2009 1418-1421*
- A Monopolar Quad-Band Antenna Based on a Hilbert Self-Affine Prefractal Geometry. *Azaro, R., +, LAWP 2009 177-180*
- Improved Cross-Polarization Characteristics of Circular Microstrip Antenna Employing Arc-Shaped Defected Ground Structure (DGS). *Guha, D., +, LAWP 2009 1367-1369*
- New Pawn-Shaped Dielectric Ring Resonator Loaded Hybrid Monopole Antenna for Improved Ultrawide Bandwidth. *Guha, D., +, LAWP 2009 1178-1181*

Geophysical measurement techniques

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

- Comment on “Short-Delay Multipath Mitigation Technique Based on Virtual Multipath”. *Zhang, S., +, LAWP 2009 1434-1435*
- Dual-Band Probe-Fed Stacked Patch Antenna for GNSS Applications. *Wang, Z., +, LAWP 2009 100-103*

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

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

Graph theory

- Optimization and Complexity Reduction of Switch-Reconfigured Antennas Using Graph Models. *Costantine, J., +, LAWP 2009 1072-1075*
- The Analysis of a Reconfigurable Antenna With a Rotating Feed Using Graph Models. *Costantine, J., +, LAWP 2009 943-946*

Green's function methods

- Cylindrical Cavity-Backed Antenna. *Paek, J. K., +, LAWP 2009 852-855*
- Efficient Calculation of the Green's Function for 2-D Periodic Line Sources Using Ewald Method. *Park, M.-J., +, LAWP 2009 565-567*

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

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

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

- Treatment of Singular Integrals on Generalized Curvilinear Parametric Quadrilaterals in Higher Order Method of Moments. *Ding, W., +, LAWP 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., +, LAWP 2009 1398-1401*

H**Handicapped aids**

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

Hearing aids

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

Height measurement

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

Helmholtz equations

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

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

HF radio propagation

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

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

Hidden Markov models

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

Hilbert spaces

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

Horn antennas

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

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

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

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

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

- 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*

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

I**IEEE**

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

Image denoising

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

Image motion analysis

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

Image reconstruction

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

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

Image representation

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

Image resolution

- Near-Space Wide-Swath Radar Imaging With Multiaperture Antenna. *Wang, W.-Q., +, LAWP 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. *Greegor, 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. *Elshehribi, 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. *Huitema, 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 Slotted Waveguide Using Periodic Slot Perturbations. *Sutinjo, A.*, +, *LAWP 2009* 550-553

Lens antennas

A Concept for a Lens Configuration for 360° Scanning. *Zaghoul, 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

Multiojective 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 1-10 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

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

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

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

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

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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 Substrates. *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

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

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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. *Trinchero, D., +, LAWP 2009 224-227*

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Medical image processing

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

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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*

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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. *Antoniades, 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. *Gregor, 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 TM₀₂₀ 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-Bernal, 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. *Arnieri, 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. *Psychouidakis, 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. *Hereraiz-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. *Elsheakh, 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. *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*
- 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*
- Mesched 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 TM₀₂₀ 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-Stubs. *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. *Ruelle, 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). *Elsheakh, 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-Bernal, 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. *Arnieri, 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 DVBT/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. *Vironne, 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. *Trinchero, D., +, LAWP 2009 224-227*
Tradeoff of Transmitted Power in Time-Reversed Impulse Radio Ultrawide-band Communications. *Liu, 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. *Elsheikh, 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 f>or Array Applications. *Arnieri, 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 Quardband 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. *Manteghi, 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. *Hajj, 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. *Herriaz-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 TM₀₂₀ 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. *Trinchero, 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*

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Optical waveguides

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

Optimization

Bore sight 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 Prefractored 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. *Chreim, H., +, LAWP 2009 665-669*

Permitivity

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 Slotted 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-Stubs. *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. *Trinchero, 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 DVBT/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. *Adamiuk, 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*

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- 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 Slotted 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. *Trinchero, 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*

Radiowave 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. *Vironne, 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. *Hailu, 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. *Trinchero, 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*

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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*

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- 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*

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- 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. *Herranz-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*

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- 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*

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- 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-Arraying of Large Planar Sources. *Isernia, T.*, +, *LAWP 2009 169-172*
 Frequency-Selective Surface to Prevent Interference Between Radar and SATCOM Antennas. *Momni, 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*

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- 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. *Pampichael, V. C.*, +, *LAWP 2009 1334-1336*

Search problems

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

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- 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*

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

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

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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*

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

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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*

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

A Ka-Band Dual-Frequency Radiator for Array Applications. *Arnieri, 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*

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

Miniatrized 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., +, LAWP 2009 1414-1417*

Spiral antennas

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

A Miniature Spiral Diversity Antenna System With High Overall Gain Coverage and Low SAR. *Sayem, A. T. M., +, LAWP 2009 49-52*

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

An HIS-Based Spiral Antenna for Pattern Reconfigurable Applications. *Deo, P., +, LAWP 2009 196-199*

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

Spirals

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

Splines (mathematics)

A Novel Planar Conformal Antenna Designed With Splines. *Koulouridis, S., +, LAWP 2009 34-36*

Spread spectrum communication

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

Sputtered coatings

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

Stability

Stability of Narrowband Dynamic Body Area Channel. *Zhang, J., +, LAWP 2009 53-56*

Stereolithography

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

Stochastic processes

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

Strip lines

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

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

Stripline

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

Strips

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

Substrate integrated waveguides

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

A Substrate Integrated Waveguide Circular Polarized Slot Radiator and Its Linear Array. *Chen, P., +, LAWP 2009 120-123*

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

Substrate-Integrated Waveguide Ku-Band Cavity-Backed 2 × 2 Microstrip Patch Array Antenna. *Awida, M. H., +, LAWP 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., +, LAWP 2009 1158-1161*

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

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

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

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

Surface electromagnetic waves

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

Planar Surface-Wave Sources and Metallic Grating Lenses for Controlled Guided-Wave Propagation. *Podilchak, S. K., +, LAWP 2009 371-374*

Surface emitting lasers

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

Surface impedance

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

Surface waves

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

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*

Switching networks

Measurement-Based Mutual Information Analysis of MIMO Antenna Selection in the 60-GHz Band. *Ranvier, S., +, LAWP 2009 686-689*

Synthetic aperture radar

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

T**Target tracking**

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

Telecommunication channels

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

Telecommunication networks

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

Telecommunication standards

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

Telecommunication switching

A Low-Profile Branched Monopole Laptop Reconfigurable Multiband Antenna for Wireless Applications. *Zhang, C., +, LAWP 2009 216-219*

Telemedicine

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

Terahertz wave devices

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

Thin film devices

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

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

Three dimensional displays

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

Time domain analysis

3D Image Reconstruction in Microwave Tomography Using an Efficient FDTD Model. *Phager, 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*

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

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*

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

Stability of Narrowband Dynamic Body Area Channel. *Zhang, J., +, LAWP 2009 53-56*

Transceivers

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

A Fraunhofer-Based Approach for the Assessment of the Field Radiated in the Fresnel Region of an Antenna. *Trinchero, D., +, LAWP 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. *Antoniadis, 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. *Zaghoul, 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. *Trinchero, 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. *Greegor, 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. *Herai-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. *Almanis, 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-Moghadas, 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. *Elshebini, 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. *Spiliopoulos, 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*

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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 Slotted 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*

- Multifield 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 DVBT/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*