



IEEE TRANSACTIONS ON

ANTENNAS AND PROPAGATION



A PUBLICATION OF THE IEEE ANTENNAS AND PROPAGATION SOCIETY

DECEMBER 1999

VOLUME 47

NUMBER 12

IETPAK

(ISSN 0018-926X)

PAPERS

Evidence of Long-Term Correlation Between Clear-Air Attenuation and Scintillation in Microwave and Millimeter-Wave Satellite Links	<i>F. S. Marzano and C. Riva</i>	1749
An Application of Convergence Acceleration Methods	<i>G. Fikioris</i>	1758
A 94-GHz Aperture-Coupled Micromachined Microstrip Antenna	<i>G. P. Gauthier, J.-P. Raskin, L. P. Katehi, and G. M. Rebeiz</i>	1761
Stacked Patches Using High and Low Dielectric Constant Material Combinations	<i>R. B. Waterhouse</i>	1767
On a Class of Predefined Wavelet Packet Bases for Efficient Representation of Electromagnetic Integral Equations	<i>H. Deng and H. Ling</i>	1772
Design of Probe-Fed Stacked Patches	<i>R. B. Waterhouse</i>	1780
Patch Antennas on Externally Perforated High Dielectric Constant Substrates	<i>J. S. Colburn and Y. Rahmat-Samii</i>	1785
Land Mine Detection Using a Ground-Penetrating Radar Based on Resistively Loaded Vee Dipoles	<i>T. P. Montoya and G. S. Smith</i>	1795
Millimeter-Wave Radar Phenomenology of Power Lines and a Polarimetric Detection Algorithm	<i>K. Sarabandi and M. Park</i>	1807
Validity of the Measured Equation of Invariance	<i>Y.-S. Xu and H.-M. Chen</i>	1814
Coordinate-Independent Dyadic Formulation of the Dispersion Relation for Bianisotropic Media	<i>E. L. Tan and S. Y. Tan</i>	1820
Isophoric Arrays—Massively Thinned Phased Arrays with Well-Controlled Sidelobes	<i>D. G. Leeper</i>	1825
Dual-Polarized Slot-Coupled Patch Antennas on Duroid with Teflon Lenses for 76.5-GHz Automotive Radar Systems	<i>B. G. Porter, L. L. Rauth, J. R. Mura, and S. S. Gearhart</i>	1836
1999 INDEX	Follows page	1842
