

IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION

A PUBLICATION OF THE IEEE ANTENNAS AND PROPAGATION SOCIETY



OCTOBER 2025

VOLUME 73

NUMBER 10

IETPAK

(ISSN 0018-926X)

COMMUNICATIONS

- [Array of Low-Profile Horn Antennas in Groove Gap Waveguide Technology Implemented With Glide-Symmetrical Holes](#) *N. Memeletzoglou, S. Diaz-Beiza, J. L. Vazquez-Roy, and E. Rajo-Iglesias*
- [An Efficiency Enhancement Method for Compact Active Integrated Antenna in Ultrawideband Vehicular Communication](#) *Z.-X. Du, H. Chen, Z. Chen, and Q.-S. Wu*
- [On the Stability of the RK-FDTD Method for Graphene Modeling](#) *J. A. Pereda and A. Grande*
- [A 3-D-Printed Lightweight Compact Wideband Dual-Polarized Feed Module for Sub-THz Applications](#) *J. Tan, Y. Li, and J. Wang*
- [A High-Efficiency Quasi-4-bit Reconfigurable Metasurface Antenna for Continuous Beam Steering With a Simple Bias Circuit](#) *Y.-H. Nam and J.-H. Lee*
- [Compact, Superdirective, Mixed-Multipole Antennas Enabled by a Custom-Designed Feed Structure](#) *Y.-L. Lang, T. Shi, M. Li, Y. Li, J. Guo, M.-C. Tang, and R. W. Ziolkowski*
- [Low-Profile Dual-Polarized Filtering Antenna Array With Controllable Radiation Nulls for Millimeter-Wave Applications](#) *Y. Xue, Z. Yang, C. Mao, J.-H. Ou, and X. Y. Zhang*
- [Rapid In-Field 3-D Array Factor Estimation for Active Phased Array Antennas by Sweeping Phase of Excitation Signals](#) *C. Lee, J.-H. Lee, H.-J. Kwon, and J.-W. Yu*
- [Compact Crossed-Dipole Antenna Design With Wide Axial Ratio Bandwidth and Unidirectional Gain for 5G Sub-6 GHz Applications](#) *C.-E. Guan and T. Fujimoto*
- [Dual-Band Dual-Polarized Glass Dielectric Resonator Antenna With Wide Bandwidths and Low Sidelobes](#) *J. Zhang, P. F. Hu, K. W. Leung, and Y. M. Pan*
- [Diamond-Enabled Electromagnetic-Thermal Co-Design for Mobile Terminals: Achieving Ultra-Small Antenna Clearance and Efficient Heat Dissipation Capability](#) *M. Wang, M. Chen, L. Chang, X. Song, F. Yang, and A. Zhang*
- [Electrically Small, Omnidirectional, Dual-Band, Dual-Polarized Dipole Antenna for Wi-Fi 2.4/5/6E Applications](#) *Y. Yu, D. Yi, C. Zhang, M.-C. Tang, and Y. Guo*
- [A Wideband, Low-Profile, Bessel Beams OAM Generator Based on Rotated Differentially Transferred and Reflected Elements](#) *Q. Zhou, R. Liu, X. Ren, P. Wang, K.-C. Wang, and W. He*
- [Design of a Wideband Dielectric Fed Patch Antenna With Multiple Resonances](#) *K. T. Lo, W. Sun, and H. Wong*
- [Annular Sector Azimuthal Null Frequency Scanning Antennas Under Resonance of Hybrid Odd-Even Modes](#) *X.-H. Mao, W.-J. Lu, F.-Y. Ji, and L. Zhu*
- [Flex-Form Generative Neural Network for Multifrequency Modes Antennas](#) *T. Yuan, J. Xie, Y. Li, X. Yang, X. Yang, and E. Wen*
- [An Integrated Simultaneous Transmit and Receive Antenna System With Monopole-Like Radiation Characteristics](#) *D. Wu, Z. Zhang, Y. Liu, Y. Li, R. Lian, and M. Li*
- [Shaping Flat-Topped Element Patterns in Linear Arrays for Limited-Scan Applications Using Interleaved Directors](#) *Z. Huang, Y. Sun, Y. Bao, S. Liao, and Q. Xue*
- [Ultrawideband and Dual-Polarized 1-D Phased-Array Antenna With Reused Structure for Low Profile and High Radiation Efficiency](#) *W. L. Huang, J. X. Sun, and Y. J. Cheng*
- [Knowledge-Based Sampling Method for Deep Learning-Assisted Planar Antenna Array Design](#) *R. Zhang, H. Cai, Y. Shen, S. Xu, and S. Hu*
- [Fast Computation of Electromagnetic Scattering by Inhomogeneous Objects With Thin Strut-Based Ceramic Lattice Structures](#) *J.-T. Jing, Z.-C. Li, W.-J. He, M.-L. Yang, and X.-Q. Sheng*
- [An Anisotropic h-Adaptive Finite Element Method for Time-Harmonic Electromagnetic Simulation](#) *H. Wu, K. Fu, S. Zuo, Z. Lin, X. Zhao, and Y. Zhang*

[Analysis of Conformal Periodic Arrays Using Cylindrically Periodic Stratified Media Green's Functions and PWS-MoM](#) *Y. Gao and Q. Wu*
[An Effective Antenna Shape Optimization Framework Employing Machine-Learning-Based Approach](#)
..... *H. Huang, X.-S. Yang, Y.-Y. Yang, and B.-Z. Wang*
[A Residual Joint Antenna Network for Joint Transmit-Receive Antenna Subset Selection in MIMO Systems](#) *J. Cai, StiY. Qi, S. Liu, and R. Chen*
