

IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION

A PUBLICATION OF THE IEEE ANTENNAS AND PROPAGATION SOCIETY



JULY 2025

VOLUME 73

NUMBER 7

IETPAK

(ISSN 0018-926X)

COMMUNICATIONS

- [Virtual VNA 2.0: Ambiguity-Free Scattering Matrix Estimation by Terminating Not-Directly-Accessible Ports With Tunable and Coupled Loads](#) . . . P. del Hougne
- [Millimeter-Wave Fully Metallic Leaky Wave Antenna With Backfire-to-Forward Beam Scanning, High Scanning Rate, and High Efficiency](#) . . . Y. Gao, H. Lu, Y. Liu, Y. Wang, and S. Gao
- [An Ultracompact Shared-Radiator Electrically Small Huygens Dual-Circularly Polarized Antenna](#) . . . H. Li and W. Lin
- [Reconfigurable 1-bit Fixed-Frequency Beam-Scanning Array With Ultra-Thin Thickness and Small Cross Section Using Microstrip Line as Phase Shifters](#) . . . L. Chang, M. Han, Z. Zhang, and A. Zhang
- [Dispersion Analysis of Wide-Scanning Reflector-Based Leaky Wave Holograms by Adiabatic Floquet-Wave Expansion Method](#) . . . M. Ashraffian, H. Oraizi, and A. Amini
- [A Planar-Cavity Complementary Dipole Antenna With Super-Wide Beamwidth for Phased Array Applications](#) . . . Y. Wang, Q. Xue, and Y. Wan
- [A Calibration Method for Magnetic-Field Injection Probes by Separating Electric-Field Response](#) . . . K. Hu, Z. Yan, Z. Han, Y. Chen, F. Liu, and J. Gao
- [Design of Arbitrarily-Extensible Multiband Periodical Leaky Wave Antenna With Multiple and Large-Range Frequency Scanning](#) . . . X.-Y. Sun, B. Wu, H.-H. Zhang, and H.-R. Zu
- [Broadband Dual-Polarized Filtering Antenna for Base Station Systems](#) . . . X. Liu, B. Sanz-Izquierdo, L. Wang, L. Zhang, X.-X. Yang, and S. Gao
- [A K-Band Fully-Integrated Multi-Channel Active Antenna-in-Package Module in Low-Temperature Cofired Ceramic](#) . . . Z. Zhao, Z.-C. Zhu, B. You, X.-P. Chen, Z.-R. Xu, L.-S. Wu, and J.-F. Mao
- [A Wideband Millimeter-Wave Metal-Only Dual-Mode OAM Transmit-Reflect-Array Antenna](#) . . . S. Gao, J. Liu, and H. Wong
- [An Ultralightweight Wideband Folded E-Shaped Patch Antenna Made From Aluminum Meshes for High-Power S-Band Applications](#) . . . H.-P. Liao, I. Huang, and S.-Y. Chen
- [Wideband 24–46 GHz Phased Array Antenna Enabled by a Compact Footprint Magnetoelectric Dipole With Frequency-Selective Stepped Patches](#) . . . W. Jiang, S. Liao, P. Liu, W. Che, and Q. Xue
- [A Compact Dual-Band Radiator-Shared Antenna With Enhanced Isolation and Flexible Frequency Ratio Regulation](#) . . . W. Wang, H. Jin, W. Yu, L. Liu, and G. Q. Luo
- [A Synthesis Technique for Compact High-Order Bandpass Frequency-Selective Surfaces via Alternately Stacked Patch Resonators and Coupled](#) . . . J. Kuang, L. Zhu, and W. Zhang
- [Compact 2-D Passive Beam-Scanning Multibeam Antenna Based on Rotman Lens and Mechanical Sweeping Phase Gradient Metasurface](#) . . . Y. Cao, S. Wu, J. Zhang, J. Li, and S. Yan
- [Wideband Decoupling Circuit for Sub-6 GHz Co-Polarized In-Band Full-Duplex Patch Antennas](#) . . . Y.-M. Zhang and S.-Y. Zheng
- [A 140-GHz 35.2-dBm Multifeed Power-Combining Transmitarray Integrated With CMOS Transmitter for 48-Gb/s Communications](#) . . . J. Wan, Y. Shen, T. Li, Y. Ding, and S. Hu
-