

# IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION

A PUBLICATION OF THE IEEE ANTENNAS AND PROPAGATION SOCIETY



[FEBRUARY 2024](#)

VOLUME 72

NUMBER 2

IETPAK

(ISSN 0018-926X)

---

## PAPERS

### *Electromagnetics*

- [A Novel Two-Stage Optimization Framework for Designing Active Metasurfaces Based on Multiport Microwave Network Theory](#) .....  
..... *J. W. Zhang, Z. Zhang, J. Zhang, J. W. Wu, J. Y. Dai, Q. Cheng, Q. S. Cheng, and T. J. Cui*
- [Simultaneous Maximization of Voltage and Power Efficiencies in Magneto-Mechanical Transmitters](#) ..... *J. Jing and G. Bahl*
- [An Extended Asymptotic Model for Fast Evaluation of the Induced Current on Multiconductor Transmission Lines Excited by the High-Frequency Nonuniform Electromagnetic Field](#) ..... *J. Guo, W.-C. Xie, Q.-S. Zheng, Y.-Z. Xie, and S. V. Tkachenko*
- [Analytical Expressions for Spherical Wire Antenna Quality Factor Demonstrating Exact Agreement Between Circuit-Based and Field Integration Techniques](#) ..... *A. B. Murray and A. K. Iyer*
- [Design and Analysis of an Ultrawideband Multilayered Electromagnetic Absorber Using a Carbonyl Iron Magnetic Substrate and a Planar Periodic Conductive Structure for mmWave Applications](#) ..... *N. Ha, G. Kim, H. Kim, S. Kwon, B. Park, and S. Kim*
- [An Advanced Forward Asymmetric Correction Method for an Electromagnetic Near-Field Probing System](#) .....  
..... *W. Shao, S. Xue, X. Tian, L. He, H. Wang, Y. Zhou, C. Zhou, and Y. Chen*
- [Frequency Splitting Suppressing of Hybrid Coupling WPT and Transfer Distance Extending by Rotating the Transmitter](#) .....  
..... *Y. Cheng, C. Ding, J. Zhou, P. Wu, and G. Wang*
- [Extreme Localization of Fields in Open Cylindrical Impedance Surface Cavities](#) ..... *R. E. Jacobsen and S. Arslanagić*
-