INTERNATIONAL JOURNAL OF

MICROWAVE AND WIRELESS TECHNOLOGIES

CONTENTS

TERAHERTZ TECHNOLOGY AND APPLICATIONS A modified Fresnel-based algorithm for 3D microwave imaging of metal objects Farshad Zamiri and Abdolreza Nabavi	313
EM FIELD THEORY Diffraction of the H-polarized plane wave by a finite layered graphene strip grating Mstislav E. Kaliberda, Leonid M. Lytvynenko, Sergey A. Pogarsky and Mariia P. Roiuk	326
Cutoff manipulation of anisotropic reactance lining in circular waveguides Zhangjie Luo, Tie Jun Cui and Hui Feng Ma	334
METAMATERIALS AND PHOTONIC BANDGAP STRUCTURES Wideband radar cross section reduction of a microstrip antenna with square slots Zhang Jiakai, Zheng Qi, Li Haixiong, Ding Jun and Guo Chenjiang	341
Design and analysis of a metamaterial inspired dual band antenna for WLAN application Priyanka Garg and Priyanka Jain	351
Analytical modeling of antisymmetric split-ring resonators coupled with transmission line Vojislav Milosevic, Radovan Bojanic and Branka Jokanovic	359
ANTENNA DESIGN, MODELING AND MEASUREMENTS Design of reconfigurable filtering ultra-wideband antenna with switchable band-notched functions Hailong Yang, Xiaoli Xi, Lili Wang, Yuchen Zhao, Xiaomin Shi and Yanning Yuan	368

Wide scanned electronically steered conformal active phased array antenna for Ku-band SATCOM Raj Kumar, Pramendra Kumar Verma and Machavaram Venkateshwar Kartikeyan	376
Wideband tightly-coupled compact array of dipole antennas arranged in triangular lattice Abhishek Kumar Awasthi and A. R. Harish	382
Investigation on the effects of resistive loading on wrapped bow-tie antennas Doojin Lee, George Shaker and William Melek	390
High-efficiency AMC loaded dipole above FR4 substrate Mohamed A.G. Elsheikh, Amr M.E. Safwat and Hadia Elhennawy	401
Compact low-cost substrate integrated waveguide fed antenna for 122 GHz radar applications Martin Frank, Fabian Lurz, Robert Weigel and	408
Alexander Koelpin A printed multiband MIMO antenna with decoupling element Ziyu Xu, Qisheng Zhang and Linyan Guo	408
Compact QMSIW-based antenna with different resonant frequencies depending on loading of metalized vias Divya Chaturvedi, Arvind Kumar and S. Raghavan	420

Cambridge Core For further information about this journal please go to the journal web site at: cambridge.org/mrf





doi.org/10.1017/S1759078719000771 Published online by Cambridge University Press