Progress
In
Electromagnetics
Research Letters
CONTENTS

Differential Fed Ultra-Wideband Multiple-Mode Antenna Using Uniform Narrow Slot Radiator
Xiu Hua Jin, Xiao-Dong Huang, and Chong Hu Cheng .................................................. 1

Compact Microstrip Bandpass Filter Improved by DMS and Ring Resonator
Mahdi Oliaei, Majid Tayarani, and Mahmood Karami ....................................................... 7

Miniature Folded Printed Quadrifilar Helical Antenna with Integrated Compact Feeding Network
Ping Xu, Zehong Yan, Xiaoqiang Yang, Tianling Zhang, and Geng Yuan .......................... 13

Experimental Research of the Electric Field Potential of a Rotating Magnetized Sphere
Vladimir B. Timofeev and Tamara E. Timofeeva ............................................................. 19

Compact Microstrip UWB Bandpass Filter with Two Band-Notches for UWB Applications
Huaxia Peng, Yufeng Luo, and Junding Zhao ................................................................. 25

A Novel Uni-Planar Compact EBG Structure
Peng Chen, Xiaodong Yang, Chaoyang Chen, and Yuning Zhao ....................................... 31

Wideband Patch Antenna with Stable High Gain and Low Cross-Polarization Characteristics
Jia-Yue Zhao, Zhi-Ya Zhang, Yang Li, Guang Fu, and Shu-Xi Gong ................................. 35

Compact Tri-Band Bandpass Filter for WLAN and WiMAX Using Tri-Section Stepped-Impedance Resonators
Bo Liu and Yimin Zhao ................................................................................................ 39

A Spiral Antenna with Integrated Parallel-Plane Feeding Structure
Huifen Huang and Zonglin Lv ......................................................................................... 45

Quad-Band Planar Inverted-F Antenna (PIFA) for Wireless Communication Systems
Nasser Ojaroudi, Hamed Ojaroudi, and Noradin Ghadimi .............................................. 51

A Folded Printed Quadrifilar Helical Antenna Employing a Compact Feeding Network
Ping Xu, Zehong Yan, Xiaoqiang Yang, and Tianling Zhang ........................................... 57

Compact Tri-Band Meandered Ring Monopole Antenna with Two Embedded Strips for WLAN/WiMAX Applications
Hong Chen, Ying-Zeng Yin, and Jian-Jun Wu ............................................................. 63

Novel Band-Notched UWB Bandpass Filter Using Microstrip/Slotline Ring Resonators
Can Cui, Zhi Hou, Hui Wang, and Wen Wu ................................................................. 69
Novel Filtering Power Divider Using Multiple Internal Resistors
Yun Long Lu and Gao Le Dai ................................................................. 75

A Design Approach for Dual-Band Wilkinson Power Divider with Two Pairs of Coupled-Line Sections
Xin Xu and Xiaohong Tang ................................................................. 81

Surface Plasmon Wave Manipulated by Quantum Coherence of Multilevel Quantum Dots
Jian Qi Shen .................................................................................. 89

A Novel Design of Compact Dipole Antenna for 900 MHz and 2.4 GHz RFID Tag Applications
Yalin Guan, Zhuming Zhou, Yanfei Li, and Huaibao Xiao ...................... 99

A Novel Face-Like Triple-Band Antenna for WLAN/WiMAX Applications
Neng-Wu Liu, Long Yang, Zhi-Ya Zhang, Guang Fu, and Qiong-Qiong Liu .......... 105

The Frequency Behaviour of the Intrinsic Immunity of the On-Chip Transistor Circuit
Tao Su, Hanyu Zheng, Yehua Yang, and Zixin Wang ................................. 111

A Folded SIR Cross Coupled WLAN Dual-Band Filter
Zi Jian Su, Xi Chen, Long Li, Bian Wu, and Chang-Hong Liang .................. 115