Progress

In

Electromagnetics

Research C
Progress

In

Electromagnetics

Research C

Chief Editors: Weng Cho Chew and Sailing He
CONTENTS

Flat-Passband Substrate Integrated Waveguide Filter with Resistive Couplings
Bin Gao, Lin-Sheng Wu, and Jun-Fa Mao ................................................................. 1

Printed Compact Lens Antenna for UHF Band Applications
Koyadan Koroth Ajith and Amitabha Bhattacharya .................................................... 11

Performance Analysis of MIMO-Frequency Diverse Array Radar with Variable
Logarithmic Offsets
Wasim Khan, Ijaz M. Qureshi, Abdul Basit, Aqdas Naveed, and Adnan Umar ............. 23

Novel Multi-Target Tracking Algorithm for Automotive Radar
Xun Gong, Ze-Long Xiao, and Jian-Zhong Xu ............................................................ 35

Analysis and Design of Rectangular Uniaxial and Biaxial Anisotropic Dielectric
Resonator Antennas
Saeed Fakhte and Homayoon Oraizi ................................................................. 43

A Wide Bandwidth Folded V-Shaped Patch Antenna with Stable High Gain and Low
Cross-Polarization Characteristics
Feibiao Dong, Wenbin Lin, Xiaohong Guo, and Guoguang Wang .......................... 51

Compact Rectenna Design for Lossy Paper Substrate at 2.45 GHz
Ines Kharrat, Pascal Xavier, Tan-Phu Vuong, and Guy Eymen Petot Tourtollet ........... 61

A New Printed Microstrip UWB Power Divider with Notched Band
Jinyi Wu, Minxian Du, Huaxia Peng, Xin Wang, and Yun Ling ............................... 71

Design of a Microstrip-Fed Hexagonal Shape UWB Antenna with Triple Notched Bands
Xun Gong, Ling Tong, Yu Tian, and Bo Gao ............................................................. 77

Method for P-Static Source Location on Aircraft Using Time Domain Measurements
Ivan Garcia-Hallo, Dominique Lemaire, Nathalie Raveu, and Gilles Peres ................ 89

CPW Dual-Band Antenna Based on Asymmetric Generalized Metamaterial π NRI
Transmission Line for Ultra Compact Applications
Mahmoud A. Abdalla and Mohamed A. Fouad ......................................................... 99

Tunable Band-notched CPW-Fed UWB Monopole Antenna Using Capacitively Loaded
Microstrip Resonator for Cognitive Radio Applications
Hany A. Atallah, Adel B. Abdel-Rahman, Kuniaki Yoshitomi, and Ramesh K. Pokharel .... 109

Design of High-Isolation Compact MIMO Antenna for UWB Application
Narges Malekpour and Mohammad A. Honarvar ..................................................... 119
A Pin-Loaded Microstrip Patch Antenna with the Ability to Suppress Surface Wave Excitation
Ayed R. AlAjmi and Mohammad A. Saed ......................................................... 131

A Novel Time Reversal Based Microwave Imaging System
Amin Tayebi, Pavel Roy Paladhi, Lalita Udpa, and Satish Udpa ............................ 139

A Compact Multiband Omnidirectional GNSS Antenna for Artillery Projectile Applications
Weiwei Liu, Yufa Sun, Dong Zhou, Shaoqi Hu, and Ming Yang ......................... 149

Effects of Superstrate Layer on the Resonant Characteristics of Superconducting Rectangular Microstrip Patch Antenna
Sami Bedra and Tarek Fortaki ........................................................................ 157

Design and Simulation of Fully Printable Conformal Antennas with BST/Polymer Composite Based Phase Shifters
Mahdi Haghzadeh, Hamzeh Jaradat, Craig Armiento, and Alkim Akyurtlu .......... 167

Miniaturized Wearable Fractal Antenna for Military Applications at VHF Band
R. Poonkuzhali, Zachariah C. Alex, and T. Balakrishnan ................................. 179

Comprehensive Analysis for Shifting MIMO SAR System
Sang Ho Lim ........................................................................................................ 191