

INTERNATIONAL JOURNAL OF

MICROWAVE AND WIRELESS TECHNOLOGIES**CONTENTS****EDITORIAL****EuCAP 2022 special issue**

Oscar Quevedo-Teruel and Zvonimir Sipus

1271

EuCAP 2022 SPECIAL ISSUE**Circularly polarized global navigation satellite systems metasurface antennas in sub-wavelength metallic cavities**

Laura García-Gámez, Loïc Bernard, Ronan Sauleau, Sylvain Collardey, Kouroch Mahdjoubi, Philippe Poulignen and Patrick Potier

1273

Substrate integrated waveguide pedestal filtering-antenna and -arrays for 5G radio frequency front-ends

Elmine Meyer, Cornelis Vertegaal, Leanne Johnson, Petrie Meyer and Ulf Johannsen

1283

Adaptive triple-fed antenna and thinned RF-chip integration into ultra thin flexible polymer foil

Serafin B. Fischer-Kennedy, Sefa Özbeş, Shuo Wang, Markus Grözing, Jan Hesselbarth, Manfred Berroth and Joachim N. Burghartz

1291

Fill level measurement of low-permittivity material using an M-sequence UWB radar

Tim Erich Wegner, Stefan Gebhardt, and Giovanni Del Galdo

1299

OSCILLATORS**A new class of spatial harmonic magnetrons with potentials for CW and sub-THz operation**

Nasrin Nasr Esfahani, Dmytro M. Vavrik and Klaus Schünemann

1308

FREQUENCY MIXERS**A novel dual-BJT avalanche pulse generator with mixer effect**

Emrah Telli and Bahadir S. Yıldırım

1319

A 38-GHz demodulator with high image rejection in 65 nm-CMOS process

Tian-Wei Huang, Yi-Cheng Huang, Chen Chien, Kun-Chan Chiang and Jeng-Han Tsai

1327

RFID AND SENSORS**A symmetric bar chart-shape microwave sensor with high Q-factor for permittivity determination of fluidics**

Moein Navaei, Pejman Rezaei and Sina Kiani

1334

A planar microwave sensor for noninvasive detection of glucose concentration using regression analysis

Tilakdhari Singh, Piyush Kumar Mishra, Aditya Pal and Vijay Shanker Tripathi

1343

BIOMEDICAL APPLICATIONS**FDTD-based SAR calculation of a wearable antenna for wireless body area network devices**

Hüseyin Şerif Savci and Fatih Kaburcuk

1354

ANTENNA DESIGN, MODELLING AND MEASUREMENTS**A novel isolation improvement technique using fractal neutralization line with dual band rejection attributes in a compact UWB MIMO antenna**

Jeet Banerjee, Abhik Gorai and Rowdra Ghatak

1361

An FSS-based shared-aperture antenna for 5G/Wi-Fi communication and indoor 5G blind compensation

Yu Lu Fan, Xian Qi Lin and Xinmi Yang

1373

Penta-band rectangular slot antenna for multi-function wireless communication with linear and circular polarizations

Haiyang Wang, Xiaoming Liu, Xiaofan Yang, Zhilbin Fang, Ran Zhang and Ye Wang

1382

A detailed insight of 2×2 high isolation wideband dual notched band MIMO antenna with evolution initiated by theory of characteristics mode

Manish Sharma, Tathababu Addepalli, Rajasekhar Manda, T. Vidyavathi and Prabhakara Rao Kapula

1392

Microstrip antennas on 3D-printed magneto-dielectric substrates: fabrication and efficiency study

Constantine Kakoyiannis, Jakub Sorocki, Ilona Piekarz and Matthias Geissler

1412

Design and analysis of single layer Ku/K band integrated element reflectarray antenna

Kavitha Narayanasamy, Gulam Nabi Alsath Mohammed and Kirubaveni Savarimuthu

1424

Axial ratio beamwidth enhancement of a low-profile circularly polarized antenna using defected ground structures

Mrityunjoy Kumar Ray, Kaushik Mandal, Gholamhosein Moloudian and Ali Lalbakhsh

1434

Two-port miniaturized textile antenna for 5G and WLAN applications

Pankaj Jha, Anubhav Kumar and Asok De

1443

Cambridge CoreFor further information about this journal
please go to the journal web site at:cambridge.org/mrf**CAMBRIDGE**
UNIVERSITY PRESS