

Table of Contents

Editor-in-Chief: A Message.....	1
RF and Microwave Filter Design By Means of Single Transistor Active Inductor: A Review.....	3
<i>Vincenzo Stornelli, Leonardo Pantoli, Alfiero Leoni, Giorgio Leuzzi</i>	
A Novel Segmentation Approach in GA and its Application in Antenna Array	8
<i>Bhargav Appasani and Nisha Gupta</i>	
Depolarization Phenomenon in Ku-Band Feed Horn Antenna.....	15
<i>Ramesh Chandra Gupta, Jigar Pandya, K. K. Sood, Rajeev Jyoti</i>	
A Ka-Band Geophysical Model Function	20
<i>Alexey Nekrasov, Dmitry Popov, Klaus Schünemann</i>	
Specific Absorption Rate Evaluation in a Typical Multilayer Fruit: Coconut with Twig due to Electromagnetic Radiation as per Indian Standards.....	24
<i>Ardhendu Kundu, Bhaskar Gupta, Amirul I. Mallick</i>	
Serbia and Montenegro IEEE MTT-S Chapter Activities in 2017	33
<i>Zlatica Marinković</i>	
Summary of 61st ETRAN and 4th IcETRAN Meetings	36
<i>Predrag Petković, Dejan B. Popović</i>	
Balkan Event in the Information, Communication and Energy Systems and Technologies - ICEST 2017.....	40
<i>Bratislav Milovanović, Biljana Stošić, Zoran Stanković, Nebojša Dončov</i>	
TELSIKS Conference - The Thirteenth Edition in 2017	43
<i>Tijana Dimitrijević, Biljana Stošić, Zoran Stanković, Nebojša Dončov, Bratislav Milovanović</i>	
“Aleksandar Marinčić“ Award	48
In Memoriam: Prof. Dr. Aleksandar Nešić.....	51

Published by

Society for Microwave Theory, Technologies and Systems

IEEE MTT-S Chapter of Serbia and Montenegro

Published twice a year**Editor-in-Chief/Technical Editor**

Biljana Stošić/Biljana Stošić

Associate Editor

Branko Kolundžija

Editorial Board

Djuradj Budimir

Westminster University, United Kingdom

Alina Caddemi

University of Messina, Italy

Cristophe Caloz

Ecole Polytechnique de Montreal, Canada

Christos Christopoulos

University of Nottingham, United Kingdom

Octavian Fratu

Politehnica University of Bucharest, Romania

Branka Jokanović

Institute of Physics, Belgrade, Serbia

Branko Kolundžija

University of Belgrade, Serbia

Zlatica Marinković

University of Niš, Serbia

Vera Marković

University of Niš, Serbia

Bratislav Milovanović

University of Niš, Serbia

Aleksandar Nešić

IMTEL Communications A.D., Belgrade, Serbia

Peter Russer

Technical University Munich, Germany

Magdalena Salazar Palma

Universidad Politécnica de Madrid, Spain

Dominique Schreurs

Katholieke Universiteit Leuven, Belgium

Georgy Stoyanov

Technical University of Sofia, Bulgaria

Andre Vander Vorst

Université Catholique de Louvain, Belgium

Ke Wu

Ecole Polytechnique de Montreal, Canada

Cover page/Cover photo

Biljana Stošić

Printed by NAIS PRINT Design, Niš

Number of printed copies 100

ISSN 1450-5835 (Print)

ISSN 2406-1050 (Online)

UDK 621.3.049.77



MIKROTALASNA REVIJA

MICROWAVE REVIEW



IEEE

http://www.mtt-serbia.org.rs/microwave_review/

Free on-line access to all published articles

Indexed in Scopus, IET Inspec, and EBSCOhost databases

Covered topics:

1. Microwave and RF devices and circuits
2. Electromagnetic fields and guided waves
3. Antennas and propagation
4. Light-wave technology and fiber optics
5. Microwave communication systems
6. Wireless communication systems
7. Fiber-optic communication systems
8. Computational and numerical techniques
9. Signal and image processing
10. Biomedical and industrial applications of microwaves
11. Electromagnetic compatibility
12. Education in telecommunications

Only papers that contain original and previously unpublished authors' research results can be submitted. Exceptionally, in the invited papers an overview of the state of the art in some fields can be given.

All papers are peer-reviewed before publishing.

The camera-ready manuscripts are sent by e-mail either to the editor or to the technical editor.

The both formats listed below should be sent:

1. An original document written in Microsoft Word format
2. A camera-ready paper in Adobe PDF format.

Instructions for preparing a camera ready copy are available at the journal website.

Editor-in-Chief,
Dr. Biljana Stošić

University of Niš, Faculty of Electronic Engineering
Aleksandra Medvedeva 14
18000 Niš, Serbia
Phone: +381 18 529 303
Fax: +381 18 588 399
E-mail: biljana.stosic@elfak.ni.ac.rs

CIP - Каталогизација у публикацији
Народна библиотека Србије, Београд

621.3.049.77

MIKROTALASNA revija = Microwave Review /
editor Biljana Stošić. - 1997, br. 1- . -
Beograd : Society for Microwave Theory,
Technology and Systems : IEEE MTT-S Chapter
of Serbia and Montenegro, 1997- (Niš : Nais
Print Design). - 29 cm

Polugodišnje. - Je nastavak: Informator
Jugoslovenske IEEE MTT sekcije = ISSN
0354-7124
ISSN 1450-5835 = Mikrotalasna revija
COBISS.SR-ID 13958528