



Sadržaj / Table of Contents

Editor's Note.....	1
Satellite Multimedia Networks and Technical Challenges.....	2
<i>S. L. Kota</i>	
Design of Microfabricated Rectangular Coaxial Lines and Components for mm-Wave Applications .....	11
<i>D. S. Filipović, Z. B. Popović, M. V. Lukić, K. Vanhille</i>	
DC to Microwave Characterization and Modeling of the Cryogenic Performance of Low-Noise HEMT's .....	17
<i>A. Caddemi, F. Catalfamo, G. Crupi, N. Donato</i>	
Two Compact Microstrip Patch Antennas for 2.4 GHz Band – A Comparison.....	29
<i>V. Rani Gupta, N. Gupta</i>	
Application of Genetic Algorithm to the Optimization of Microstrip Antennas with and without Superstrate .....	32
<i>N. Chattoraj, J. S. Roy</i>	
Accurate Design of Triplet Microstrip Square Open-Loop Resonator Filters.....	36
<i>M. V. Nedelchev, I. G. Iliev</i>	
Investigation of a Left-handed Microstrip Line.....	41
<i>A. R. Georgieva</i>	
Microwave Software Tools for Research and Education .....	45
<i>D. V. Tošić, M. Potrebić</i>	
Simple Transmission Line Representation of Tesla Coil and Tesla's Wave Propagation Concept.....	55
<i>Z. Blažević, D. Poljak, M. Cvetković</i>	
In Honour of the 150th Birth Anniversary of Nikola Tesla.....	59
<i>A. Marinčić</i>	
Report on the Main Chapter Activities from September 1, 2005 to August 31, 2006.....	62
<i>B. Milovanović</i>	

**Mikrotalasna revija**  
**Microwave Review**

Časopis udruženja za  
mikrotalasnu tehniku i tehnologiju i  
IEEE MTT-S Chapter-a Srbije

Publication of Society for Microwave  
Theory and Technique and IEEE MTT-S  
Chapter of Serbia

Izlazi dva puta godišnje  
Published twice a year

ISSN 14505835, UDK 621.3.049.77

**Adresa / Address**

Bulevar Mihajla Pupina 165b,  
Belgrade, Serbia  
Tel: 381 11 135 420 ext. 122, 138  
Fax: 381 11 311 5884

**Urednik / Editor**

Prof. Vera Marković

**Tehnički urednik / Technical Editor**

Zlatica Marinković

**Cover design**

Aleksandar Atansković, Zlatica Marinković

**Uređivački odbor / Editorial Board**

Prof. Christos Christopoulos,  
University of Nottingham, United Kingdom

Prof. Aleksandar Marinčić,  
Faculty of Electrical Engineering,  
Belgrade, Serbia

Prof. Bratislav Milovanović,  
Faculty of Electronic Engineering, Niš, Serbia

Prof. Aleksandar Nešić,  
IMTEL Institute, Belgrade, Serbia

Prof. Andre Vander Vorst,  
Universite Catholique de Louvain, Belgium

Prof. Ke Wu,  
Ecole Polytechnique de Montreal, Canada

**Štampa / Printed by**

*Petrograf*, Niš

**Tiraž / Number of printed copies**

500