

International Journal of Modeling and Optimization

CONTENTS

Volume 3, Number 5, October 2013

Design of Microstrip Antenna for WPAN Applications by Applying Modified Smith-Chart Representation <i>Settapong Malisuan and Jesada Sivaraks</i>	381
Application of Vapor Phase Soldering (VPS) for Joints Reliability Improvement <i>Agata Skwarek, Beata Synkiewicz, Krzysztof Witek, and Sebastian Wronski</i>	386
Technological Aspects of Semiconductor Thermogenerator (TEG) Assembly <i>Krzysztof Witek, Agata Skwarek, Beata Synkiewicz, Piotr Guzdek, and Aneta Arazna</i>	390
A New Circuit Model of Small-Signal Amplifier Using MOSFETs in Triple Darlington Topology <i>Sachchida Nand Shukla and Susmrita Srivastava</i>	394
Effect of Emitter Layer on the Signal Generation of the Active Pixel Sensor <i>Sangsik Park and Hyungsoo Uh</i>	399
Dynamic Sampling for FOCUS Hybrid Components <i>Alarico Campetelli</i>	402
Frequency-Dependent Description of the Thermal Energy Inputs in Each Layer of a Semiconductor by Using Bode Diagrams <i>M. Richter, O. Koller, M. Kopp, R. Schroth, and J. Lutz</i>	407
Intelligent Control of Aluminium Rolling Mills Using Two Dimensional Adaptive Filters <i>Branislav Vuksanovic and Amar Bousbaine</i>	412
Application of a Fast Boundary Element Algorithm for Open Floating Potential Electrostatic Problem <i>Deng Jun, Li Licheng, Hao Yanpeng, Chen He, Wang Jun, and Zheng Xin</i>	418
Low Variance Non-Contemporaneous Recordings Using Multitaper Analysis in Forensic Applications <i>Jose Trangol and Abel Herrera</i>	425
Train Pipe State Detection Device Design <i>Shutao Wei</i>	429
Performance Comparison of High-Speed High-Order (n:2) and (n:3) CNFET-Based Compressors <i>Shima Mehrabi, Keivan Navi, and Omid Hashemipour</i>	432
Automobile Noise Control: Circuit and System <i>Sayel M. Fayyad</i>	436
Electromagnetic Suspension System: Circuit and Simulation <i>Suleiman Abu-Ein and Sayel M. Fayyad</i>	440

Control and Monitoring System for Composite Materials Fabrication Based on PPS Method.....	445
<i>B. Sakowicz, D. Makowski, P. Sekalski, P. Marciniak, R. Kotas, G. Skrabalak, R. Talar, M. Rosinski, and A. Napieralski</i>	
Throughput Capacity of Multi-Channel Hybrid Wireless Network with Real Antenna Signal Model.....	450
<i>Chen Lin</i>	
Stitching and Memory-Optimized Processing of Three-Dimensional Riblet Surface Datasets for Oil Channel Tests.....	453
<i>Renke Scheuer, Eduard Reithmeier, and Niklas B. Windeler</i>	
Develop a Detection System for Grey and ColourStego Images.....	458
<i>Ahd Aljarf, Saad Amin, John Filippas, and James Shuttelworth</i>	
Pseudo Relevance Feedback by linking WordNet for Expanding Queries in Information Retrieval Process	462
<i>Ramakrishna Kolikipogu, B. Padmaja Rani, and N. Swapna</i>	
Prediction of Patient-Specific Tissue Engineering Scaffolds for Optimal Design.....	468
<i>Yong L. Chuan, Md. E. Hoque, and Ian Pashby</i>	