

Table of Contents

pp.

Vol. 3 No. 1: February 2013

A Reflectance Model for Relatively Clear and Turbid Waters.....	<i>S. P. Tiwari, P. Shanmugam, Y. H. Ahn, J. H. Ryu</i>	325-337
Simulation and Experimental Verification of a HB-Type Vernier Motor.....	<i>R. H. Thejel, H. A. Hairik, M. A. Alwan</i>	338-344
Electrocardiogram (ECG) Signal Modeling and Noise Reduction Using Hopfield Neural Networks.....		
.....	<i>F. Bagheri, N. Ghafarnia, F. Bahrami</i>	345-348
A Simple Square Rooting Circuit Based on Operational Amplifiers (OPAMPs).....	<i>K. C. Selvam, S. Latha</i>	349-351
Generation of a New Three Dimension Autonomous Chaotic Attractor and its Four Wing Type.....	<i>F. Yu, H. C. Wang</i>	352-358
Analysis of Quality of Service for the AOMDV Routing Protocol.....	<i>V. B. Kute, M. U. Kharat</i>	359-362
Comparison Between Conditions of Major Roads Within and Outside the Port of Durban.....	<i>O. M. Kunene, D. Allopi</i>	363-367
Frequency Estimation of Irregularly Sampled Data Using a Sparsity Constrained Weighted Least-Squares Approach..		
.....	<i>A. Zahedi, M. H. Kahaei</i>	368-372
Effect of the Triaxiality in Plane Stress Conditions. Triaxiality Effect in a PVC Material.....		
.....	<i>N. Selini, M. Elmequenni, M. Benguediab</i>	373-380

Vol. 3 No. 2: April 2013

Quality Improvement of a Small Water Supply. A Practical Application of a Full System of Nanofiltration.....		
.....	<i>R. Marin Galvin, J. M. Rodriguez Mellado</i>	381-386
Kinetic Modeling of Dye Effluent Biodegradation by Pseudomonas Stutzeri.....	<i>N. Rajamohan, M. Rajasimman</i>	387-390
Performance Analysis of Different Control Strategies in a Z-source Inverter.....	<i>B. Nayak, S. S. Dash</i>	391-395
Isolation of Crude Oil from Polluted Waters Using Biosurfactants Pseudomonas Bacteria: Assessment of Bacteria Concentration Effects.....	<i>A. Khalifeh, B. Roozbehani, A. M. Moradi, S. Imani Moqadam, M. Mirdrikvand</i>	396-401
Effects of Greenshipping to the Maritime Industry.....	<i>E. A. Ogbonnaya, R. Poku, E. Adigio</i>	402-407
Experimental Investigation of Influence of Acoustic Wave on Vapour Precipitation Process.....		
.....	<i>V. Vekteris, I. Tetsman, V. Moxsin</i>	408-412
An Improved Clarke and Wright Algorithm to Solve the Capacitated Vehicle Routing Problem.....		
.....	<i>L. Caccetta, M. Alameen, M. Abdul-Niby</i>	413-415
Analysis of Video Signal Transmission Through DWDM Network Based on a Quality Check Algorithm.....		
.....	<i>S. Ilic, B. Jaksic, M. Petrovic, A. Markovic, V. Elcic</i>	416-423

Vol. 3 No. 3: June 2013

Influence of Temperature on Energetic and Rheological Characteristics of PLANTOHYD Bio Lubricants – a Study in the Laboratory.....	<i>K. Kardjilova, V. Vozarova, M. Valah</i>	424-428
Two-dimensional Analysis of Cracks Propagation in Structures of Concrete.....		
.....	<i>D. Benarbia, M. Benguediab, S. Benguediab</i>	429-432
Variable Gain PI Controller Design For Speed Control of a Doubly Fed Induction Motor Using State-Space Nonlinear Approach.....	<i>T. Mohammed Chikouche, A. Mezouar, T. Terras, S. Hadjeri</i>	433-439
Conformal Band-Notch UWB Monopole Antenna on Finite Cylindrical Substrates.....	<i>E. S. Ahmed</i>	440-445
Comparative Study of Fatigue Damage Models Using Different Number of Classes Combined with the Rainflow Method.....	<i>S. Zengah, A. Aid, M. Benguediab</i>	446-451
Analysis of Void Growth and Coalescence in Porous Polymer Materials. Coalescence in Polymer Materials.....	<i>S. A. Reffas, M. Elmequenni, M. Benguediab</i>	452-460

Vol. 3 No. 4: August 2013

Analysis of PM Magnetization Field Effects on the Unbalanced Magnetic Forces due to Rotor Eccentricity in BLDC Motors.....*S. Mahdiun-Rad, S. R. Mousavi-Aghdam, M. Reza Feyzi, M. B. B. Sharifian* 461-466

Design Practices in Harmonic Analysis Studies Applied to Industrial Electrical Power Systems.....
.....*S. F. Mekhamer, A. Y. Abdelaziz, S. M. Ismael* 467-472

A Study of Joint Cost Inclusion in Linear Programming Optimization.....*P. Armaos* 473-478

Socio-environmental Impacts Associated with Burning Alternative Fuels in Clinker Kilns.....
.....*F. B. Mainier, L. P. C. Monteiro, R. J. Mainier* 479-482

Using Resistivity Measurements to Determine Anisotropy in Soil and Weathered Rock.....*S. Soto-Caban, E. Law* 483-487

Modeling of Fatigue Crack Propagation in Aluminum Alloys Using an Energy Based Approach.....
.....*F. Khelil, B. Aour, M. Belhouari, N. Benseddiq* 488-496

Contribution of Particles Size Ranges to Sand Friction.....*E. Mostefa Kara, M. Meghachou, N. Aboubekr* 497-501

Investigations of Response Time Parameters of a Pneumatic 3/2 Direct Acting Solenoid Valve Under Various Working Pressure Conditions.....*K. A. Venkataraman, K. Kanthavel, B. Nirmal Kumar* 502-505

Vol. 3 No. 5: October 2013

Two-dimensional Numerical Estimation of Stress Intensity Factors and Crack Propagation in Linear Elastic Analysis
.....*A. Boulenouar, N. Benseddiq, M. Mazari* 506-510

Behaviour of Water Droplets Under the Influence of a Uniform Electric Field in Nanocomposite Samples of Epoxy Resin/TiO₂.....*A. Bairaktari, M. Danikas, X. Zhao, Y. Cheng, Y. Zhang* 511-515

A Two Element Plasma Antenna Array.....*F. Sadeghikia, F. Hodjat-Kashani* 516-521

Simulation of the Optimized Structure of a Laterally Coupled Distributed Feedback (LC-DFB) Semiconductor Laser Above Threshold.....*M. Seifouri, A. Faraji* 522-525

The Effect of Displacement Mode of Rigid Retaining Walls on Shearing Bands by Active Earth Pressure.....
.....*A. Sekkel, M. Meghachou* 526-531

Effect of Iron Additives on the Microstructure of Hydroxyapatite.....*G. A. Gamal, F. A. Al-Mufadi, A. H. Said* 532-539

Current-mode CMOS Active Inductor with Applications to Low-Voltage Oscillators.....
.....*M. Ma, Z. Li, Z. Yao* 540-543

Discharges Classification using Genetic Algorithms and Feature Selection Algorithms on Time and Frequency Domain Data Extracted from Leakage Current Measurement.....
.....*D. Pylarinos, K. Theofilatos, K. Siderakis, E. Thalassinakis* 544-548

A Circuit for the Square Root of the Sum of Two Squared Voltages using an IC LM311 Open Collector Comparator.....*K. C. Selvam* 549-551

A Review on Energy Efficient CMOS Digital Logic.....*B. L. Dokic* 552-561

Interaction of Rupture Zones of Adjacent Anchor Plates in an Analogical Medium.....
.....*H. Abbad, M. Meghachou, C. Dekar, S. M. Daoud* 562-565

APPENDIX