

Table of Contents

Efficient Strain Based Triangular and Sector Elements for Elasticity Problems M. Bourezane	1
Design of Vehicle Compression Springs for Optimum Performance in their Service Condition A.E. Ikpe and I. Owunna	22
Gas-Slag-Forming System of Flux-Cored Wires for Plasma-Mig Building-Up Welding V.V. Chigarev, N.A. Makarenko, O.H. Hryn', S.H. Plis and D.M. Holub	35
Study the Effects of Dielectric Type on the Machining Characteristics of γ-Ti Al in Electrical Discharge Machining M.R. Shabgard, H. Faraji, B. Khosrozade, H. Eivazi-Bagheri and K. Amini	40
Use of Waste from Agroindustrial Sources as Substrate for Polyunsaturated Fatty Acids Production by <i>Thraustochytrium kinney</i> VAL-B1 D. Silva, M.P. Villarroel, A.L. Roa and B.H. Quilodrán	50
Application of Parametric Isotherm Models to Quaternary Adsorption System of Phenol, Butanol, Butan-2-ol and 2-Methyl Butan-2-ol A.S. Yusuff, L.T. Popoola and I.I. Olateju	56
Assessment of Leachate Effects on Groundwater and Soil from Nduba Land Fill in Kigali, Rwanda T.R. Patrick, F. Hategekimana, N. Aphrodice and G.S. Kumaran	68
Dynamic Behavior Study of a VSC-HVDC System with SPWM Command Subjected to an Important Variation of Load K.T. Houngan, R.G. Agbokpanzo, K. Codja, D.P. Aguemon and C. Espanet	76
An Efficient Chaotic Cuckoo Search Framework for Solving Non-Convex Optimal Power Flow Problem B. Bachir, C. Saliha, R. Djekidel and R. El-Sehiemy	84
Optimization of Real Power Loss and Voltage Stability Index for Distribution Systems with Distributed Generation M.A. Elshahed, M. Dawod and Z.H. Osman	100
The Current and Future States of Ethiopia's Energy Sector and Potential for Green Energy: A Comprehensive Study B. Khan and P. Singh	115
Destructive and Non-Destructive Testing of an Industrial Screed Mortar Made with Lightweight Composite Aggregates WPLA M.T. Gouasmi, A.S. Benosman, H. Taïbi, N. Kazi Tani and M. Belbachir	140
Assessment of Potential Tunneling Hazards for the New Railway Tunnel in Ethiopia E. Assefa, L.J. Lin, C.I. Sachpazis, D.H. Feng and S.X. Shu	159
The Potential Effectiveness of Lean Construction Tools in Promoting Safety on Construction Sites M.S. Bajjou, A. Chafi and A. En-Nadi	179
Corporate Social Responsibility: Institutional Behavior Differences in Extractive Industry E.O. Marfo, K.O. Amoako, H.A. Antwi, B. Ghansah and G. Mohammed Baba	194