

Table of Contents

Microwave-Mediated Electroless Coating of Copper on Hollow Fly Ash Microspheres A.D. Akinwekomi	1
Experimental Analysis of <i>Persea americana</i> as Filtration Loss Control Additive for Non-Aqueous Drilling Fluid K.C. Igwilo, E.E. Okoro, O. Agwu, C. Onedibe, S.I. Ibeneme and N. Okoli	8
Numerical Investigation of the Adhesive Damage Used for the Repair of A5083 H11 Aluminum Structures by Composites Patches K. Sadek, M.S. Bennouna, B. Aour, B.A. Bachir Bouiadjra, A. Benaissa and M. Fari Bouanani	22
Substantiation of Thin-Walled Structures Parameters Using Nonlinear Models and Method of Response Surface Analysis M. Bondarenko, M. Tkachuk, A. Grabovskiy and I. Hrechka	32
Development of New Approach in Reliability Analysis for Excellent Predictive Quality of the Approximation Using Adaptive Kriging N. Kernou and Y. Bouafia	44
Assessment of Mine Tailing and Quarry Dust as Joint Concrete Aggregates L. Mbereyaho, P.C. Kwizera, T.B. Munyampundu and A.K. Mutwarasibo	64
Parametric Optimization of Thermal Comfort in Extreme Weather Conditions A. Oudrane, B. Aour, Z. Belkacem and M. Hamouda	75
Advective Transport Modeling for Spatial Analysis of Atmospheric Aerosols over Lagos Area of South Western Nigeria M.A. Lala, O.A. Adesina and A. Igbafe	91
Petro-Mineralogical and Geochemical Characterization of the Banded Irons Formations BIFs of the Nimba Range and its Western Extension (Nimba Region) M.S.M. Conté, A. Boushaba and A. Moukadiri	99
Determination of the Optimal Path of Three Axes Robot Using Genetic Algorithm S.A. Dahmane, A. Megueni, A. Azzedine, A. Slimane and A. Lousdad	135
Evaluation of Wind Resources Potential and Economic Analysis of Wind Power Generation in South Africa T. Adefarati and G.D. Obikoya	150
Estimation of Electromechanical Equipment Cost for Hydropower Plants Taking into Account of Continental Factors A.H.J. Hounnou, F. Dubas, F.X. Fifatin, C. Bloch, D. Chamagne and A. Vianou	182
Investigation of the Low Voltage Ride-Through of Inverter Using Virtual Inertia Methods in Microgrid E. Buraimoh and I. Davidson	200
Optimal Power Flow Problem Solution Based on Hybrid Firefly Krill Herd Method A. Khelifi, B. Bachir and C. Saliha	213
Enhancement of Production in Subassembly Line of a Medium Scale Industry Using Different Lean Tools and Flexsim Simulation Software G.V. Punna Rao, S. Nallusamy and P. Raman	229