

Table of Contents

The Bond Length of Intermetallic Ternary Phases of Al-Fe-Si Alloy Using Molecular Dynamics Simulation with the Application of [001] Compression	
M. Taoufiki, H. Chabba, A. Barroug, A. Jouaiti and D. Dafir	1
Variability Analysis of Compressive and Flexural Performance of Coconut Fibre Reinforced Self-Compacting Concrete	
S.O. Odeyemi, M.O. Adisa, O.D. Atoyebi, A. Adesina, A. Lukman and A. Olakiitan	19
New Selection Process for Retaining Walls Based on Life Cycle Assessment and Economic Concerns	
H. Zbidi and S.E.E. Khay	29
Numerical Simulation of Geotechnical Isolation of Building Subjected to Earthquake Using Rubber Sand Mixtures	
A. Brara and D. Boumezzerane	45
Analytical Modeling of Shrink-Fitted FGM Thick-Walled Cylinder	
S. Zrinej, N. Laghzale and H.A. Bouzid	61
Characterization of Boeing 777 Nose Landing Gear to Better Withstand Rough Landing	
A. Jinadu, O.A. Olayemi, Q. Tijani and A. Salaudeen	75
Analysis of a Hybrid System Solar Chimney-Air Soil Heat Exchanger for Natural Ventilation	
B. Belfegas, T. Tayebi and S. Larbi	91
Application of a Modified Particle Swarm Optimization for Maximum Power Point Tracking for Solar Photovoltaic Systems	
E. Gedefaye, S. Lakeou, T. Tadiwose and T. Terefe	111
Mathematical Modeling of Agricultural Insurance Pricing in Morocco	
Y. Kouach, A. El Attar and M. El Hachloufi	129