Table of Contents

Numerical Finite Element Analysis of Cracked Stainless-Steel Pipe Repaired by GFRP in a Moist Environment	
A. Elamine, S. Kaddour, A. Benaoumeur, H. Benzaama, M.S. Bennouna and M. Mokhtari	1
Prediction of Flexural Properties of Additively Manufactured Short Fiber-Reinforced Polymer Composite Parts	10
L.W. Kariuki, B.W. Ikua, S.K. Karanja and S.P. Ng'ang'a	19
Geometrical Parameter Optimization of Circular Cross-Section Conformal Cooling Channels in Injection Molds of Plastic Paving Block Molds L.W. Simiyu, J.M. Mutua, P.I. Muiruri, B.W. Ikua and S.N. Gacharu	37
Enhancing Gold Assaying Crucibles in Ghana: Optimizing Fosu Clay Grog with Sintered Mullite for Improved Performance Y.D. Hou, L. Gbologah, D.B. Asante and P.S. Kwawukume	53
An Analytic Model for the 2-DEG Density Current-Voltage Characteristic for AlGaN/GaN HEMTs C. El Yazami and S. Bri	69
Transient Stability Analysis of an Integrated Photovoltaic Systems in a Power System S. Mzebetshana and R. Sarma	79
A 4-Dimensional Strategy for Managing Construction Waste Originating during the Design Process within Architectural Design Firms in Egypt A.A.E. Othman and A.S.M. Saad	95
Managing Design Changes through Integrating Concurrent Engineering into the Architectural Design Process A A F. Othman and M S. Ali	117