ISBN(softcover): 978-3-03835-891-6 ISBN(eBook): 978-3-0357-0206-4

Table of Contents

A Method for System Buckling Analysis of Plane Sway Frame
K.N. Li 1

Force Analysis of IPMC Actuated Fin and Wing Assembly of a Micro Scanning Device through Two-Way Fluid Structure Interaction Approach
M.U. Haq, Z. Gang, Z.Z. Sun and S.M. Aftab 19

Heat and Mass Transfer in 3D Non-Newtonian Nano and Ferro Fluids over a Bidirectional Stretching Surface
C.S.K. Raju and N. Sandeep 33

Effect of Nonlinear Thermal Radiation on 3D Jeffrey Fluid Flow in the Presence of Homogeneous–Heterogeneous Reactions
C.S.K. Raju, N. Sandeep and M. Gnaneswara Reddy 52

Unsteady Magnetohydrodynamic Casson Fluid Flow over a Vertical Cone and Flat Plate with Non-Uniform Heat Source/Sink
A. Jasmine Benazir, R. Sivaraj and O.D. Makinde 69

Dual Solutions for Heat and Mass Transfer in MHD Bio-Convective Flow over a Stretching/Shrinking Surface with Suction/Injection
M.S. Kumar, N. Sandeep and B.R. Kumar 84

Effects of Heat Transfer on Microhardness and Microstructure of Friction Stir Welded AA 6061 Aluminum Alloy
S.T. Selvamani, M. Vigneshwar and S. Divagar 102

Analysis of Welding Properties in FSW Aluminium 6351 Alloy Plates Added with Silicon Carbide Particles
S. Nallusamy 110

Investigation and Parametric Analysis of Steel Perforated Sheet Metal (PSM) for Optimum Forming Process
K.D. Kothari and R.L. Jhala 118

Influence of Argon Ion Bombardment on Improvement of Surface Properties of Low Density Polyethylene (LDPE)
M.F. Zaki 124

Characterization of Surfactant Flooding for Light Oil Using Gum Arabic
O. Taiwo, K. Bello, I. Mohammed and O. Olafuyi 136

Stacked Transformer: Influence of the Geometrical and Technological Parameters
A. Namoune, A. Hamid and R. Taleb 148

Hybridization of Firefly and Water Wave Algorithm for Solving Reactive Power Problem
K. Lenin, B. Ravindhranath Reddy and M. Suryakalavathi 165

Improving the Performance of INS/GNSS System Using the Approach of Carrier Phase Measurements
B. Khan and Y.Y. Qin 172

Towards Effective Communication Technique for Energy Efficient Internet of Things
K. Suresh and M.R. Babu 184

Research on the Virtualization Technology in Cloud Computing Environment
W.M. Ding, B. Ghansah and Y.Y. Wu 191

Android Based Naive Bayes Probabilistic Detection Model for Breast Cancer and Mobile Cloud Computing: Design and Implementation
G. Gatuha and T. Jiang 197

Advanced Encryption Standard Algorithm Applied Research in Medical Reagent Sales Management
H.X. Xiao, X. Ji and J.F. Dong 209

Research on the Risk Factors of Mobile Business: Based on the Sorting Delphi Method
F.M. Chen and Y.Q. Liu 215

Lean Manufacturing Implementation in a Gear Shaft Manufacturing Company Using Value Stream Mapping
S. Nallusamy 231