Table of Contents

-		•	
Ρ	rei	ŀa	ce

Arrhenius Activation Energy Effect on a Stagnation Point Slippery MHD Casson Nanofluid Flow with Entropy Generation and Melting Heat Transfer	
T.A. Yusuf, A. Wasiu, S.O. Salawu and J.A. Gbadeyan	1
Numerical Study of Combined Surface Radiation and Natural Convection in Vertical Conical Annular Enclosure M.A. Medebber, B. Ould Said and N. Retiel	19
Unsteady Magnetohydrodynamic Mixed Convective Flow of a Reactive Casson Fluid in a Vertical Channel Filled with a Porous Medium L. Rundora	33
MHD and Stability for Convective Flow of Micropolar Nanofluid over a Moving and Vertical Permeable Plate R. Alouaoui, S. Ferhat and M.N. Bouaziz	51
Impact of Thermal Stratification on Unsteady Natural Convection Couette Flow Formation in a Vertical Channel Filled with Anisotropic Porous Material B.K. Jha, M.K. Musa and A.O. Ajibade	67
Numerical Study of Heat Transfer in Rectangular Fins for Different Cases of Thermo- Physical Properties I. Bennia, T. Benabdallah and S. Lounis	83
Investigating Thermal Stability in a Two-Step Convective Radiating Cylindrical Pipe R.S. Lebelo, R.K. Mahlobo and S.O. Adesanya	99
Capillary Rise and Oil Recovery under Primary Bjerknes Force Experienced by Bubbles D. Samayoa, E.R. de Luna, L.A. Ochoa-Ontiveros, L. Álvarez-Romero, J.G. Barbosa and I.M. Andrés	109
An Analytical Study to Compare the Heat Transfer Performances of Water-Based TiO ₂ , SiO ₂ , TiC and SiC Nanofluids M.Y. Arafat and S. Chakraborty	119
Influence of Magnetic Field on Level of Linearly Polarized Laser Beam Passing through Faraday Crystal S.H. Zyoud, A. Abdelkader, A.H. Zyoud and A.M. Holi	129
Numerical Investigation of the Interaction between the Thermal and Dynamic Effects of Cross-Ventilation for a Generic Isolated Building A. Benlefki, M. Hamel and B. Medjahed	141