## **Table of Contents**

Preface	
On the Flow of Oil-Based Nanofluid on a Stretching Permeable Surface with	Radiative Heat

Transfer and Dissipative Energy
C.J. Etwire, I.Y. Seini, R. Musah and O.D. Makinde

Time-Dependent Hydromagnetic Boundary Layer Flow across a Porous Vertical Surface with Internal Heat Generation

M. Sulemana and I.Y. Seini

1

58

142

Numerical Investigation of Gas-Liquid Two-Phase Flows in a Cylindrical Channel
S. Gourari, F. Mebarek-Oudina, O.D. Makinde and M. Rabhi

Investigation of the Natural Convection within a Cold Circular Enclosure Containing Three Equal-Sized Cylinders of Hot Surface

H. Laidoudi and H. Ameur

Natural Convection from Two Hot Sami Circular Cylinder Confined in Cold Circular

Natural Convection from Two Hot Semi-Circular Cylinder Confined in Cold Circular Cylinder
M. Helmaoui, H. Laidoudi and A. Ghenaim

Effects of Hydrodynamic Slip on Rotating Magneto-Electro-Osmotic Flow through a Periodic Microfluidic System

M. Abdulhameed, D.G. Yakubu and G.T. Adamu

67

A Brief Technical Note on the Onset of Convection in a Horizontal Nanofluid Layer of

Finite Depth via Wakif-Galerkin Weighted Residuals Technique (WGWRT)

A. Wakif. I.L. Animasaun and R. Sehagui

90

Quadratic Mixed Convection Stagnation-Point Flow in Hydromagnetic Casson Nanofluid over a Nonlinear Stretching Sheet with Variable Thermal Conductivity

E.O. Fatunmbi and S.S. Okoya 95

Effect of Fin Inclination Angel on Heat Transfer Improvement in an Annular Space of a Rotor Stator

Y. ATTOU and F. Kebir

Second Law Analysis of MHD Micropolar Fluid Flow through a Porous Microchannel with

Multiple Slip and Convective Boundary Conditions

M. Madhu, N.S. Shashikumar, B.J. Gireesha and N. Kishan

123

Scrutiny the Heat Transfer Effect in an Annulus by Mounting Axial Fins with Different

Shapes: Without and with Taylor Number
F. Kebir and Y. ATTOU
Reynolds Number Effect on the Flow Demeanorin a Vertical Circular Free Turbulent Jet

with Cross Flow
A. Feddal, A. Azzi and A.Z. Dellil

Effect of an Anchor Geometry on the Hydrodynamic Characteristics of a Nanofluid in Agitated Tank

A. Mokhefi, M. Bouanini, M. Elmir and P. Spitéri

The Effect of Fin Length on Free Convection Heat Transfer in Annular Space of Concentric Arrangement Using Shear-Thinning Fluids as a Thermal Medium

I. Guendouci, H. Laidoudi and M. Bouzit