

Table of Contents

Preface

The Effect of Blockage Ratio on Fluid Flow and Heat Transfer around a Confined Square Cylinder under the Effect Thermal Buoyancy H. Laidoudi	1
Mixed Convection Heat Transfer around a Tandem Circular Cylinders in Incompressible Downward Flow H. Laidoudi and O.D. Makinde	12
The Effect of Reynolds and Prandtl Number on Flow inside of Plan Channel of Waved Bottom Wall under Mixed Convection H. Laidoudi and M. Bouzit	21
Numerical Approach at Flat Plate for Predicting the Film Cooling Effectiveness Part A: Effect Blowing Ratio F. Kebir and A. Khorsi	30
Non-Newtonian Power-Law Flows around Circular Cylinder under Aiding/Opposing Thermal Buoyancy H. Laidoudi and M. Bouzit	45
Numerical Approach at Flat Plate for Predicting the Film Cooling Effectiveness Part B: Effect Injection Angle F. Kebir and A. Khorsi	57
Mixed Convection Heat Transfer from a Heated Square Cylinder Immersed in Upward Flow of Power-Law Fluids H. Laidoudi and M. Bouzit	72
Numerical Investigation of Power-Law Fluid Flows and Heat Transfer inside of Curved Duct under Aiding Thermal Buoyancy F. Bouzit, H. Laidoudi, B. Blissag, M. Bouzit and A. Guenaim	84
The Flow of Radiated Carreau Dusty Fluid over Exponentially Stretching Sheet with Partial Slip at the Wall H.B. Santosh, Mahesha, C.S.K. Raju and O.D. Makinde	96
Chemical Reaction Effect on Forced Convection Flow of a Jeffery Fluid over a Stretching Sheet: A Numerical Study A.K. Mishra, N. Senapati, S.R. Mishra and S. Bhattacharjee	109
Thermodynamics Analysis of MHD Casson Fluid Slip Flow in a Porous Microchannel with Thermal Radiation N.S. Shashikumar, B.C.P. Kumara, B.J. Gireesha and O.D. Makinde	120
Radiation Effect on Heat and Mass Transfer by Natural Convection from a Horizontal Surface Embedded in a Porous Medium N. Bano, O.D. Makinde, B.B. Singh and S.R. Sayyed	140
Combined Effects of Variable Viscosity and Thermal Conductivity on Dissipative Flow of Oil-Based Nanofluid over a Permeable Vertical Surface C.J. Etwire, I.Y. Seini, R. Musah and O.D. Makinde	158
Radiative and Viscous Ohmic Dissipation on MHD Tangent Hyperbolic Fluid over a Convectively Heated Sheet in a Suspension of Dust Particles S.U. Mamatha, C.S.K. Raju, Mahesha and O.D. Makinde	177