

Table of Contents

Preface

MHD Heat Transfer Flow of Casson Fluid with Velocity and Thermal Slips over a Stretching Wedge in the Presence of Thermal Radiation N. Bano, B.B. Singh and S.R. Sayyed	1
MHD Stagnation-Point Flow and Heat Transfer over an Exponentially Stretching/Shrinking Vertical Permeable Cylinder N. Bano, B.B. Singh and S.R. Sayyed	23
Effects of Retardation Time on Non-Newtonian Electro-Osmotic Flow in a Micro-Channel G.T. Adamu, A.M. Kwami, M. Abdulhameed and D.G. Yakubu	39
Computational Analyses of Flow and Heat Transfer at 60° Position of 180° Curved Duct of Square Cross-Section M. Mokeddem, H. Laidoudi and M. Bouzit	53
Convective Heat Transfer Analysis of Hydromagnetic Micropolar Fluid Flow Past an Inclined Nonlinear Stretching Sheet with Variable Thermo-Physical Properties E.O. Fatunmbi, S.S. Okoya and O.D. Makinde	63
Effects of Inlet and Outlet Ports of Ventilated Square Cavity on Flow and Heat Transfer H. Laidoudi, M. Helmaoui, B. Azeddine, A. Ayad and A. Ghenaim	78
Soret Effect on MHD Casson Fluid Flow Past a Moving Vertical Plate in the Presence of Radiation and Chemical Reaction K. Vijaya, G.V.R. Reddy and O.D. Makinde	86
Forced Convection Heat Transfer from a Pair of Circular Cylinders Confined in Ventilated Enclosure M. Helmaoui, H. Laidoudi, A. Belbachir, A. Ayad and A. Ghaniam	104
Boundary Layer Flow of Casson Fluid on Exponentially Stretching Porous Surface with Radiative Heat Transfer I.Y. Seini, G. Aloliga, B. Ziblim and O.D. Makinde	112
A Study of Fractional Relaxation Time Derivative on Blood Flow in Arteries with Magnetic and Thermal Radiation Effects D.G. Yakubu, M. Abdulhameed, G.T. Adamu and A.M. Kwami	126
Finite Difference Investigation of a Polluted Non-Isothermal Variable-Viscosity Porous Media Flow C. Nwaigwe and O.D. Makinde	145
Computational Analysis on Gas Turbine Blade by Hole Modified for Optimization the Effectiveness F. Kebir	157