

Mhd Flow Of Micropolar Fluid In A Rectangular Duct With

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MHD non-Newtonian micropolar fluid flow and heat transfer ...

Recently, Guria et al. [27] have discussed the MHD squeezing flow of a micropolar fluid between parallel disks. They derived similarity solutions by homotopy analysis method and compared them with the solutions obtained by homotopy perturbation method. Guria et al. [28] have discussed an unsteady MHD flow between two eccentric rotating disks.

MHD Flow of Micropolar Fluid due to a Curved Stretching ...

The studies dealing with micropolar magnetohydrodynamic (MHD) flows usually ignore the micromagnetorotation (MMR) effect, by assuming that magnetization and magnetic field vectors are parallel. The main objective of the present investigation is to measure the effect of MMR and the possible differences encountered by ignoring it. The MHD planar Couette micropolar flow is solved analytically ...

MHD flow of the micropolar fluid between eccentrically ...

Motsa and S. Shateyi, " The effects of chemical reaction, Hall and ion-slip currents on MHD micropolar fluid flow with thermal diffusivity using a novel numerical technique," Journal of Applied Mathematics 2012. studied the MHD micropolar fluid with the chemical reaction, Hall ion-slip current and the thermal diffusivity.

MHD Flow of the Micropolar Fluid between Eccentrically ...

flow of an MHD micropolar fluid over an unsteady . stretching surface. Furthermore [9] examined interaction of p ulsatile . flow on the peristaltic motion of a magneto-

MHD Flow of Micropolar Fluid in a Rectangular Duct with ...

Srinivasacharya and Reddy examined natural convection flow of doubly stratified non-Darcy micropolar fluid. Impact of thermal radiation in unsteady magnetohydrodynamic flow of micropolar fluid is explored by Hayat and Qasim . Rashidi et al. provided an analytic solution for micropolar fluid flow with porous medium and radiation effects.

MHD Flow of Micropolar Fluid Partial Slip Conditions: Dual ...

the MHD flow of a micropolar fluid confined between two infinite, insulated, parallel, non-coaxially rotating disks. Hussain and Kamal [4] studied boundary layer flow for micropolar electrically conducting fluid on a rotating disk in the presence of magnetic field. The effect of the magnetic field on the flow of a

MHD Flow of Micropolar Fluids over a Shrinking Sheet with ...

D. Srnivasacharya and M. Shiferaw, "MHD flow of micropolar fluid in a rectangular duct with hall and ion slip effects," Journal of the Brazilian Society of Mechanical Sciences and Engineering, vol. 4, no. 313, 2008.

Numerical Solution of MHD Flow of Micropolar Fluid with ...

N2 - This study numerically investigates Magnetohydrodynamic (MHD) convective and chemically reactive unsteady micropolar fluid flow with nanoparticles through the vertical porous plate with mass diffusion, thermal radiation, radiation absorption and heat source. A flow model is established by employing the well-known boundary layer approximations.

Homogeneous-heterogeneous reactions in MHD flow of ...

transfer effects on MHD flow of a micropolar fluid towards a stagnation point on a vertical stretching sheet. The main objective of the present work is to study the numerical solutions of problem of magnetohydrody-namic (MHD) micropolar fluid flow with heat and mass transfer towards a stagnation point on a vertical plate.

MHD flow of a micropolar fluid near a stagnation-point ...

The above equations ((-)) can be rewritten for an incompressible steady micropolar fluid in the presence of MHD (neglecting the body forces and couple terms) through the space between two noncoaxial disks and takes the form as follows: where , , and represent the velocity vector, micromotion vector, and the magnetic field vector, respectively, is the electric field vector, is the current ...

MHD Flow of the Micropolar Fluid between Eccentrically ...

This paper is devoted to the analytic study of the boundary layer flow of a micropolar fluid toward a stretching sheet with a stagnation-point on the plate, and tending to potential flow a infinity. The purpose of the current study is three fold (i) to consider a flow of a micropolar fluid over a non-linear stretching sheet (ii) to include the MHD effects and (iii) to provide an analytic solution.

Mhd Flow Of Micropolar Fluid

This analytical investigation examines the magnetohydrodynamic flow problem of an incompressible micropolar fluid between the two eccentrically placed disks. Employing suitable transformations, the flow governing partial differential equations is reduced to ordinary differential equations.

(PDF) MHD Flow of Micropolar Fluid in a Porous Medium ...

The squeezing flow of an incompressible micropolar fluid between two parallel infinite disks is investigated in the presence of a magnetic field. An analysis of strong and weak interactions has been carried out. Similarity solutions are derived by homotopy analysis method.

Influences of Hall current and radiation on MHD micropolar ...

MAGNETOHYDRODYNAMIC FLOW OF A MICROPOLAR FLUID IN A CIRCULAR PIPE WITH HALL EFFECTS D. SRINIVASACHARYA 1 and MEKONNEN SHIFERAW2 (Received 5 March, 2009; revised 13 November, 2009) Abstract Steady magnetohydrodynamic flow of an incompressible micropolar fluid through a pipe of circular cross-section is studied by considering Hall and ionic ...

Magnetohydrodynamic stratified bioconvective flow of ...

and the ion slip cannot be neglected. The velocity vector of the fluid is given as $q = w(x,y) k$ and the microrotation vector as $v = v(x,y) i + v(x,y) j = 1 + 2$. Within the framework of these assumptions, the equations that govern the MHD flow of micropolar fluid in the absence of both body force and body couple are ...

Micromagnetorotation of MHD Micropolar Flows

Kumar, V. Sugunamma, and N. Sandeep, " Physical aspects on unsteady MHD-free convective stagnation point flow of micropolar fluid over a stretching surface," Heat Transfer-Asian Res. 48, 3968 (2019).

MHD Squeezing Flow of a Micropolar Fluid Between Parallel ...

MHD Flow of Micropolar Fluid Partial Slip Conditions: Dual Solutions and Stability Analysis Liaquat Ali Lund 1,2, Zurni Omar 1, Ilyas Khan 3,*, Seifedine Kadry 4, Seungmin Rho 5, Irshad Ali Mari 2 and Kottakkaran Sooppy Nisar 6 1 School of Quantitative Sciences, Universiti Utara Malaysia, Sintok 06010, Kedah;

Magnetohydrodynamic micropolar fluid flow in presence of ...

Mahmoud MAA, Waheed SE (2012) MHD flow and heat transfer of a micropolar fluid over a stretching surface with heat generation (absorption) and slip velocity. J Egypt Math Soc 20:20–27 MathSciNet Article Google Scholar

MAGNETOHYDRODYNAMIC FLOW OF A MICROPOLAR FLUID IN A ...

A study is presented for magnetohydrodynamics (MHD) flow and heat transfer characteristics of a viscous incompressible electrically conducting micropolar fluid in a channel with stretching walls. The micropolar model introduced by Eringen is used to describe the working fluid. The transformed self similar ordinary differential equations together with the associated boundary conditions are ...

MHD Mixed Convection Micropolar Fluid Flow through a ...

MHD flow of a micropolar fluid with heat and mass transfer is discussed by Hayat and Qasim (2010). Rashidi et al. (2011) investigated the heat transfer of a micropolar fluid through a porous medium and obtained the analytic solution. Hayat et al. (2008) studied the mixed convection flow of a micropolar fluid over a non-linearly stretching sheet ...

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