

Mhd Flow Of Micropolar Fluid In A Rectangular Duct With

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Online class 7 on M H D for MSc Students by Dr. B. J. GireeshaMHD Technology Laboratory - Applied Magnetohydrodynamics Online class 6 on M H D for MSc students by Dr. B. J. Gireesha Unsteady MHD Flow and Heat Transfer Over a Stretching/Shrinking Permeable Sheet with Ohmic Heating Divergence-Free SPH for Incompressible and Viscous Fluids Overview of MHD Equations Mhd Flow Of Micropolar Fluid
The two-dimensional magnetohydrodynamic (MHD) stagnation-point flow of an incompressible micropolar fluid over a non-linear stretching surface is studied. The resulting non-linear system of equations is solved analytically using homotopy analysis method (HAM).

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

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.

MHD Flow of the Micropolar Fluid between Eccentrically ...

A numerical study was carried out to examine the magnetohydrodynamic (MHD) flow of micropolar fluid on a shrinking surface in the presence of both Joule heating and viscous dissipation effects. The governing system of non-linear ordinary differential equations (ODEs) was obtained from the system of partial differential equations (PDEs) by employing exponential transformations.

Magnetohydrodynamic (MHD) Flow of Micropolar Fluid with ...

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.

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

The present analysis represents the MHD flow of micropolar fluid past an oscillating infinite vertical plate embedded in porous media. At the plate, free convections are caused due to the differences in temperature and concentration. Therefore, the combined effect of radiative heat and mass transfer is taken into account.

MHD Flow of Micropolar Fluid over an Oscillating Vertical ...

eration/absorption and viscous dissipation effects on MHD flow of a micropolar fluid over a moving permeable surface embedded in a non-Darcian porous medium has been studied by Mahmoud [19]. Damseh et al. [20] investigate the combined heat and mass transfer by natural convection of a micropolar,

MHD flow and heat transfer of a micropolar fluid over a ...

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.

Micromagnetorotation of MHD Micropolar Flows

D. Srinivasacharya 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.

MHD Mixed Convection Micropolar Fluid Flow through a ...

The MHD boundary layer transient mixed convection flow of a micropolar fluid over an oscillatory moving vertical porous plate in the presence of thermal radiation has been analyzed by Kim and Fedorov. Raptis has studied the boundary layer flow of a micropolar fluid in a porous medium.

Evaluating the unsteady MHD micropolar fluid flow past ...

Magneto-hydrodynamic flow and heat transfer of a hybrid nanofluid in a rotating system among two surfaces in the presence of thermal radiation and Joule heating Ali J. Chamkha, A. S. Dogonchiand D. D. Ganji

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

Bhargara et al. obtained a numerical solution of a free convection MHD micropolar fluid flow between two parallel porous vertical plates by means of the quasi-linearization method. Zueco et al. [24] investigated the transient hydromagnetic flow of micropolar fluid between parallel porous vertical walls using Network Simulation Method.

Effect of radiation on transient MHD flow of micropolar ...

The objective of current communication is to address the magnetohydrodynamic (MHD) flow of micropolar fluid by a curved stretching surface. The curved stretching surface is coiled in a circle having radius R. Homogeneous-heterogeneous reactions are taken into consideration.

Homogeneous-heterogeneous reactions in MHD flow of ...

The impact of nonlinear thermal radiation in the flow of micropolar nanofluid past a nonlinear vertically stretching surface is investigated. The electrically conducting fluid is under the influence of magnetohydrodynamics, heat generation/absorption and mixed convection in the presence of convective boundary condition.

A numerical treatment of MHD radiative flow of Micropolar ...

We have discussed the flow of micropolar fluid past a permeable stretching sheet in attendance of joule heating, thermal radiation, partial slip and magneto hydrodynamic (MHD) with convective boundary conditions. Appropriate transformations are used to convert the boundary layer equations into nonlinear ordinary differential equations.

Radiative and Joule heating effects in the MHD flow of a ...

An applied uniform magnetic field acts in a perpendicular direction to the flow of fluid. The nonlinear coupled partial differential equations used to model the micropolar fluid flow are transformed to ordinary differential equations by using appropriate similarity variables.

Entropy generation analysis of Hall current effect on MHD ...

The MHD nanofluid flow in a symmetric channel was probed by Reddy et al. [26]. The elementary study of micropolar fluid was introduced by Eringen [27]. B é g et al. [28] presented the applications of micropolar fluid flow. Uddin et al. [29] probed the MHD micropolar fluid with Hall effect.

Study of the Couple Stress Convective Micropolar Fluid ...

The forthright purpose of this communication is to inspect the flow of magnetohydrodynamic (MHD) stratified micropolar bioconvective fluid containing nanoparticles and gyrotactic microorganism.

Magnetohydrodynamic stratified bioconvective flow of ...

flow with variable plate temperature in a micropolar fluid. El-Amin [11] considered the MHD free-convection and mass transfer flow in a micropolar fluid over a stationary vertical plate with constant suction. Kim [12] investigated unsteady free convection flow of micropolar fluid past a vertical plate embedded in porous medium

Heat Transfer in MHD Micropolar Fluid Flow Past a Vertical ...

The flow of a viscous incompressible fluid between two parallel plates rotating noncoaxially but with the same angular velocity was studied by Berker. Coirier analysed the flow due to a disk and a fluid at infinity which is rotating noncoaxially at slightly different angular velocity.