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Entropy Generation On Mhd Viscoelastic

Entropy generation analysis for viscoelastic MHD flow over ...

Cu nanofluid and entropy generation [28] Entropy generation and energy conversion rate for the peristaltic flow in a tube with magnetic field has also been investigated by Akbar [29] Makinde [30] has investigated entropy analysis for MHD boundary layer flow and heat transfer over a flat plate with a convective surface boundary condition

Entropy Generation in Viscoelastic Fluid Over a Stretching ...

Entropy Generation in Viscoelastic Fluid Over a Stretching Surface MHD flow of viscoelastic fluids over a continuously moving surface has wide range of internal heat generation/absorption, work done due to deformation and thermal radiation (Nandeppanavar et al, 2011) considered the heat

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Viscoelastic MHD Nanofluid Thin Film Flow over an Unsteady ...

processes Article Viscoelastic MHD Nanofluid Thin Film Flow over an Unsteady Vertical Stretching Sheet with Entropy Generation Asad Ullah 1,2, Zahir Shah 1, Poom Kumam 3,4,5,* , Muhammad Ayaz 1, Saeed Islam 1 and Muhammad Jameel 1 1 Department of Mathematics, Abdul Wali Khan

University, Mardan 23200, Khyber Pakhtunkhwa, Pakistan; asadullah@kustedupk (AU); ...

Entropy Generation due to MHD Mixed Convection of ...

significance of radiation parameter effect on entropy generation within nanofluids Dehsara et al [18] numerically analyzed the entropy generation in nanofluid flow in presence of variable magnetic field, viscous dissipation and solar radiation Govindaraju et al [19] investigated the entropy generation in MHD flow of a nanofluid

Entropy Generation on MHD Eyring-Powell Nanofluid through ...

entropy Article Entropy Generation on MHD Eyring-Powell Nanofluid through a Permeable Stretching Surface Muhammad Mubashir Bhatti 1, Tehseen Abbas 2, Mohammad Mehdi Rashidi 3,4, Mohamed El-Sayed Ali 5,* and Zhigang Yang 3 1 Shanghai Institute of Applied Mathematics and Mechanics, Shanghai University, Shanghai 200072, China; mubashirme@yahoo.com

DESIGN OF A VERTICAL ANNULUS WITH MHD FLOW USING ...

entropy generation is minimized The effects of slip and Joule dissipation on the entropy generation in a single rotating disk in the presence of MHD flow are investigated by Arikoglu et al [19] Aiboud and Saouli [20] applied the analysis of entropy generation for a viscoelastic MHD flow over a stretching surface

Computation of entropy generation in dissipative transient ...

Also, the entropy concept for third grade fluid flow in an annular pipe was studied by Yurusoy et al [37] Other recent studies can be found in Ref [38-39] From aforesaid data, it is apparent that limited number of work has been afforded thus far to entropy generation in time-dependent viscoelastic flows external to curved geometries

PERTURBATION ANALYSIS OF MHD CASSON FLOW OF A ...

chemical reaction and heat source effects on MHD oscillatory flow in an irregular channel, the governing equations are solved by analytically Yigid aksoy [3] Studied, effects of couple stresses on the heat transfer and entropy generation rates of a flow between ...

Influence of Inclined Lorentz Forces on Entropy Generation ...

Analysis of the entropy generation test to the hydromagnetic flow of viscoelastic fluid in the presence of heat generation on a stretching surface was done by Baag et al [4] Rashidi et al [5] performed work on entropy generation investigation for the hydromagnetic nonfluid flow on a stretching sheet A numerical report on entropy

Analysis of entropy generation for MHD flow of third grade ...

Analysis of entropy generation for MHD flow of third grade nanofluid over a nonlinear stretching surface embedded in a porous medium Tasawar Hayat^{1,2}, Rubina Riaz¹, Arsalan Aziz^{1,3} and Ahmed Alsaedi² ¹Department of Mathematics, Quaid-I-Azam University, 45320, Islamabad 44000, Pakistan ²Nonlinear Analysis and Applied Mathematics (NAAM) Research Group, Faculty of Science, King

ENTROPY GENERATION FOR MHD HEAT AND MASS ...

ENTROPY GENERATION FOR MHD HEAT AND MASS entropy generation and the Bejan number in the flow field The effect of variable viscosity, Schmidt number, Hartman and Reynolds number on the velocity, viscoelastic fluid having a temperature-dependent viscosity over a continuously stretching sheet Salem [11] has further studied the problem of

The Influence of Thermal Radiation on Mixed Convection MHD ...

The magnetohydrodynamic (MHD) flow of an electrically conducting fluid has gained considerable interest in modern metallurgical and biomedical

field The process of coating of metals, MHD power generation systems, cooling of nuclear reactor, wound healing and MRI ...

THERMODYNAMIC ANALYSIS OF VISCOELASTIC FLUID IN A ...

ond law analysis of thermodynamics to viscoelastic MHD flow over a stretching surface was Entropy generation and energy conversion rate for the peristaltic flow in a tube with magnetic field has also been investigated by Akbar [44] Makinde [45] has investigated entropy analysis of MHD boundary-layer flow and heat transfer over a flat plate

Advances in Mechanical Engineering Dynamics with Cattaneo ...

Sep 18, 2019 · Entropy generation, Darcy law, porous medium, Oldroyd-B nanofluid, bioconvection, Cattaneo-Christov heat and mass et al5 analyzed the entropy generation in magneto-hydrodynamic (MHD) second grade nanofluid flow 1Department of Mathematics, generation rate in radiative viscoelastic second-grade

Parametric analysis of entropy generation in magneto ...

to viscoelastic magneto-hydrodynamic flow over a stretching surface analytically using Kummer's functions Rashidi et al have been derived the entropy generation equation for the steady MHD flow due to a rotating porous disk in a nanofluid [48] Also the entropy generation in off-centered stagnation flow