

Entropy Generation On Mhd Viscoelastic Nanofluid Over A

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ENTROPY GENERATION FOR MHD HEAT AND MASS TRANSFER OVER A ...

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 Analysis of MHD Viscoelasticity-Based ...

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 On Mhd Viscoelastic

In this paper it is intended to analyse entropy generation by applying second law of thermodynamics to magnetohydrodynamic flow, heat and mass transfer of an electrically conducting viscoelastic liquid (Walters B') past on a stretching surface, taking into account the effects of Joule dissipation, viscous dissipation and Darcy dissipation, and internal heat generation.

Entropy generation analysis for viscoelastic MHD flow over ...

The study of MHD flow of viscoelastic fluids over a continuously moving surface has wide range of applications in technological and manufacturing processes in ... The velocity and temperature profiles are obtained analytically and used to compute the entropy generation number in viscoelastic magnetohydrodynamic flow over a stretching surface.

Entropy Generation in Viscoelastic Fluid Over a Stretching ...

In this paper it is intended to analyse entropy generation by applying second law of thermodynamics to magnetohydrodynamic flow, heat and mass transfer of an electrically conducting viscoelastic ...

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To analyze the impacts of flow parameter on velocity profile, temperature distribution, concentration profile, and entropy generation number inside the boundary layer, graphs are plotted and discussed physically. The permeability and viscoelastic parameters have strong influence on the entropy generation in the vicinity of stretching surface.

Entropy Generation due to MHD Mixed Convection of ...

Bejan, Entropy Generation Minimization (CRC Press, New York, 1996). in his work to optimize higher energy efficiency of thermal engineering devices used the entropy generation minimization methods. The entropy analysis for MHD Casson nanofluid flow passing through a permeable stretching surface has been presented by Qing et al. 33 33.

Entropy Generation Due to Heat and Mass Transfer in a Flow ...

Entropy generation of magnetohydrodynamic electroosmotic flow in two-layer systems with a layer of non-conducting viscoelastic fluid. ... The results show that magnetic field can enhance the local entropy generation rate, but viscoelastic physical parameter can restrain the local entropy generation rate. ... (MHD) Two-fluid dragging system.

Entropy generation analysis for viscoelastic MHD flow over ...

Entropy generation analysis of MHD Maxwell visco elasticity-based micropolar fluid flow past a stretching sheet through porous media with radiation and thermal slip has been investigated. Using suitable similarity transformations the coupled non-linear partial differential equations of motion and energy have been converted into a set of non-linear ordinary differential equations.

Entropy generation of magnetohydrodynamic electroosmotic ...

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

ENTROPY GENERATION IN MHD FLOW OF VISCOELASTIC NANOFUIDS ...

The boundary-layer equations for mass and heat energy transfer with entropy generation are analyzed for the two-dimensional viscoelastic second-grade nanofluid thin film flow in the presence of a uniform magnetic field (MHD) over a vertical stretching sheet. Different factors, such as the thermophoresis effect, Brownian motion, and concentration gradients, are considered in the nanofluid model.

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

entropy generation in mhd flow of viscoelastic nanofluids with homogeneous-heterogeneous reaction, partial slip and nonlinear thermal radiation April 2020 Journal of Thermal Engineering

Entropy Generation On Mhd Viscoelastic Nanofluid Over A ...

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; asad.ullah@kust.edu.pk (A.U.); Zahir1987@yahoo.com (Z.S ...

Effect of Entropy Generation in Viscoelastic Fluid over a ...

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Entropy generation analysis for viscoelastic MHD flow over ...

Viscoelastic fluid, MHD, Non-uniform heat source/sink, Thermal radiation. fluid is of considerable interest in modern metallurgical and . 1. INTRODUCTION . Entropy generation is a measure of the account of irreversibility associated to the real processes. The entropy generation is encountered in many of energy related

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

Entropy generation in form of heat dissipation destroys useful energy which accounts for the underperformance and decrease in the thermodynamic efficiency of a system. Since micropolar fluid is used as a working fluid in many technological and industrial processes, it is therefore necessary to examine the influence of all factors that can enhance entropy production so as to achieve the best ...

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Abstract. AbstractIn this paper it is intended to analyse entropy generation by applying second law of thermodynamics to magnetohydrodynamic flow, heat and mass transfer of an electrically conducting viscoelastic liquid (Walters B') past on a stretching surface, taking into account the effects of Joule dissipation, viscous dissipation and Darcy dissipation, and internal heat generation.

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