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### Thermo-Diffusion and Multislip Effects on MHD Mixed ...

MHD effects on micropolar nanofluid flow over a radiative stretching surface with thermal conductivity Srinivas Maripala 1 and Kishan Naikoti 2 1Department of Mathematics, Sreenidhi Institute of Science and Technology, Ghatkesar, Hyd-501301 2Department of Mathematics, Osmania University, Hyd-07

The effects of thermal radiation on an unsteady magnetohydrodynamic (MHD) free convective flow of a nanofluid through a vertical flat plate was discussed by Parasuraman et al. . Mohankrishna et al. [12] studied the effects of radiation and heat source in presence of transverse magnetic field on an unsteady natural convection flow of a nanofluid over an infinite vertical plate.

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The Micropolar nanofluid with electrical MHD is modeled and solved in a rotating system between parallel plates. The fluid flow is considered in three dimensions. • The effect of Hall current applied to the nanofluid flow phenomena. • Skin friction co-efficient hat flux and mass flux for engineering interest are calculated through Tables. •

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Damseh et al. studied the effect of chemical reaction of micropolar fluid in presence of heat generation on the stretching sheet and found that non-Newtonian parameter effect was directly proportional to the skin friction coefficient. Electrical MHD flow of micropolar nanofluid was examined by Chamkha et al. .

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Abstract. In this paper, we discuss the Soret and Dufour effects on an MHD mi-

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K. L. Hsiao, " Micropolar nanofluid flow with MHD and viscous dissipation effects towards a stretching sheet with multimedia feature," International Journal of Heat and Mass Transfer 112, 983- 990 (2017).

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Micropolar fluids have distinguishing features such as the local structure effects, which are microscopic and micro-motion of the fluid elements, stresses due to couple, and so on. It has important applications in exotic lubricants [ 2 ], animal blood [ 3 ], liquid crystals with rigid molecules [ 4 ], and some biological fluids [ 5 ].

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Partial slip effect in the flow of MHD micropolar nanofluid flow due to a rotating disk - A numerical approach Article (PDF Available) in Results in Physics 7 · September 2017 with 158 Reads

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Finite Element Simulation of Multi-Slip Effects on Unsteady MHD Bioconvective Micropolar Nanofluid Flow Over a Sheet with Solutal and Thermal Convective Boundary Conditions by Liaqat Ali 1 , Xiaomin Liu 1,\* , Bagh Ali 2 , Saima Mujeed 3 and Sohaib Abdal 4

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