K.S. Saket P.G. College - Faculty Profile

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About:

I Dr. Ajeet Kumar Verma assistant professor, department of Mathematics, K S Saket PG College, Ayodhya.

Research:

Fluid Dynamics, Boundary Layer Flow, Nanofluids Flow, MHD Flow, Porous and Non-Porous Medium.

Publications:

1. A.K. Verma, S. Rajput, K. Bhattacharyya, A.J. Chamkha, D. Yadav, â Comparison between graphene-water and graphene oxide-water nanofluid flows over exponential shrinking sheet in porous medium: Dual solutions and stability analysisâ , published in â Chemical Engineering Journal Advancesâ , 2022. DOI: 10.1016/j.ceja.2022.100401 2. A.K. Gautam, S. Rajput, K. Bhattacharyya, A.K. Verma, Md.G. Arif, A.J. Chamkha, â Existence of multiple solutions for magnetohydrodynamic flows of second-grade and Walterâ s B fluids due continuously contracting flat sheet with partial slipâ , published in â Partial Differential Equations in Applied Mathematicsâ , 2022. DOI: 10.1016/j.padiff.2022.100434 3. A.K. Verma, S. Rajput, K. Bhattacharyya, A.J. Chamkha, â Nanoparticle’s radius effect on unsteady mixed convective copper-water nanofluid flow over an expanding sheet in porous medium with boundary slipâ , published in â Chemical Engineering Journal Advancesâ , 2022. DOI: 10.1016/j.ceja.2022.100366 4. S. Rajput, K. Bhattacharyya, A.K. Verma, M.S, Mani, A.J. Chamkha, D. Yadav, â Unsteady stagnation-point flow of CNTs suspended nanofluid on a shrinking/expanding sheet with partial slip: multiple solutions and stability analysisâ , published in â Waves in Random and Complex Mediaâ , 2022. DOI: 10.1080/17455030.2022.20639865. A.K. Verma, K. Bhattacharyya, S. Rajput, M.S, Mani, A.J. Chamkha, D. Yadav, â Buoyancy driven nonNewtonian Prandtl-Eyring nanofluid flow in Darcy-Forchheimer porous medium over inclined non-linear expanding sheet with double stratificationâ , published in â Waves in Random and Complex Mediaâ , 2022. DOI: 10.1080/17455030.2022.20624826. A. Banerji, K. Bhattacharyya, S.K. Mahato, A.K. Verma, A.K. Gautam, A.J. Chamkha, â Exact solutions for 2D boundary layer flow of two types of viscoelastic fluids and heat transfer on a permeable shrinking sheet with thermal radiation and variable surface temperature: existence of multiple solutionsâ , published in â Waves in Random and Complex Mediaâ , 2022. DOI: 10.1080/17455030.2021.2023786 7. A.K. Singha, G.S. Seth, K. Bhattacharyya, D. Yadav, A.K. Verma, A.K. Gautam, â Soret and Dufour Effects on Hydromagnetic Flow of H 2 O-Based Nanofluids Induced by an Exponentially Expanding Sheet Saturated in a Non-Darcian Porous Mediumâ , published in â Journal of Nanofluidsâ , 2021. DOI: 10.1166/jon.2021.1800 8. S. Rajput, A.K. Verma, K. Bhattacharyya, A.J. Chamkha, â Unsteady nonlinear mixed convective flow of nanofluid over a wedge: Buongiorno modelâ , published in â Waves in Random and Complex Mediaâ , 2021. DOI: 10.1080/17455030.2021.19875869. A.K. Verma, A.K. Gautam, K. Bhattacharyya, A. Banerji, A.J. Chamkha, â Boundary layer flow of nonNewtonian Eyringâ Powell nanofluid over a moving flat plate in Darcy porous medium with a parallel freestream: Multiple solutions and stability analysisâ , published in â Pramanaâ , 2021. DOI: 10.1007/s12043021-02215-9 10. A.K. Gautam, A.K. Verma, K. Bhattacharyya, S. Mukhopadhyay, A.J. Chamkha, â Impacts of activation energy and binary chemical reaction on MHD flow of Williamson nanofluid in Darcyâ Forchheimer porous medium: a case of expanding sheet of variable thicknessâ , published in â Waves in Random and Complex Mediaâ , 2021. DOI: