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Hydromagnetic Stagnation Point Flow and Heat Transfer of Particle Suspended Fluid Towards a Radially Stretching Sheet with Heat Generation
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Abstract
In this article, we examine the hydromagnetic stagnation point flow of a dusty fluid towards a radially stretching surface in the presence of internal heat generation. By suitable similarity transformation, the governing coupled nonlinear partial differential equations with their corresponding boundary conditions are converted into a set of nonlinear coupled ordinary differential equations. The resulting equations are then solved numerically and the numerical solutions are then compared with existing literature. The effects of the parameters involving in the problem on flow and heat transfer characteristics are presented and discussed with the aid of graphs and tables. © 2017, The National Academy of Sciences, India.

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