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Effect of Electrification on Boundary Layer Stagnation Point Flow of Nanofluid Over a Stretching Sheet

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Abstract

In this investigation, the stagnation point flow of silver water nanofluid over a linear stretching sheet using Buongiorno's two-component non-homogeneous nanofluid model is studied. The governing equations are reduced to ordinary differential equations by using similarity transformation and solved numerically by using bvp4c function of MATLAB package. The impact of electrification in presence of viscous dissipation on normalized velocity, temperature and nanoparticle concentration is analysed and examined through