

## Documents

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**Heat and mass transfer effects on MHD natural convection flow past an impulsively moving vertical plate with ramped temperature**  
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### Abstract

A numerical analysis is carried out to study heat and mass transfer effects on MHD natural convection flow past an impulsively moving vertical plate with ramped temperature. The dimensionless governing momentum, energy and concentration equations for this investigation are solved numerically by using most flexible method which is finite element method. The effects of the various pertinent parameters entering into the problem on the velocity, temperature and the concentration profiles are illustrated graphically and discussed for both ramped temperature and isothermal plates. The effects of various parameters on the skin friction, Nusselt number and the Sherwood number are presented numerically in tabular form. Finally obtained numerical results are compared with the previously published results and are in quantitative agreement. © 2016 Columbia International Publishing.

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