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Veera Krishna, M., Gangadhar Reddy, M., Chamkha, A.J.

Heat and mass transfer on MHD rotating flow of second grade fluid past an infinite vertical plate embedded in uniform porous medium with hall effects
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Abstract
We discussed Hall effects on unsteady hydromagnetic natural convective rotating flow of second grade fluid past an impulsively moving vertical plate entrenched in a fluid inundated porous medium, while temperature of the plate has a temporarily ramped profile. Analytical solutions of the governing equations are obtained by Laplace transform technique. The precise solution is also obtained in case of unit Schmidt number. The analytical phrases for skin friction due to primary and secondary flows and Nusselt number are derived for both ramped temperature and isothermal plates. Expression for Sherwood number is also obtained. The velocity, temperature, and concentration are displayed graphically, whereas those of skin friction, Nusselt number, and Sherwood number are presented in tabular form with reference to momentous flow parameters. © Springer Nature Switzerland AG 2019.

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