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| Title | Ionized Micropolar Fluid Flow through a Vertical Plate | | |
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| Published Journal Name | Advances in Materials Science and Engineering | | |
| Type of Publication | Article | | |
| Volume | 83 | Issue | 1 |
| Publisher | Handawi | | |
| Publication Date | Year-2014 | | |
| ISSN | 1687-8442 | | |
| DOI |  | | |
| URL |  | | |
| Other Related Info. |  | | |
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| Abstract |  |
| The ionized micropolar fluid flow with heat and mass transfer over a vertical plate under the action of transverse magnetic field has been investigated numerically for the case of small magnetic Reynolds number. To obtain the non-similar non-dimensional momentum, energy and concentration equations, the usual non-dimensional transformations have been used. The obtained equations are solved numerically by explicit finite deference method. The effects of various parameters on primary and secondary velocities, angular velocity, temperature and concentration as well as local and average shear stresses, Couple stress, Nusselt number and Sherwood number are shown in graphically. Finally, a qualitative comparison with previous work has been tabulated. | |