|  |  |  |  |
| --- | --- | --- | --- |
| Title | [MHD convection flow due to a rotating disk with hall effect](https://inis.iaea.org/search/search.aspx?orig_q=RN:37075874)  Journal  Journal of Energy, Heat and Mass Transfer, madras, India.  Volume  27  Pages  pp. 211-228 | | |
| Author(s) Name | Kh. Abdul Maleque and Md. Abdus Sattar, | | |
| Contact Email(s) | maleque@aiub.edu | | |
| Published Journal Name | Journal of Energy, Heat and Mass Transfer, madras, India. | | |
| Type of Publication | Journal | | |
| Volume | 27 | Issue |  |
| Publisher |  | | |
| Publication Date | 2005 | | |
| ISSN | ISSN: 0970-9991 | | |
| DOI |  | | |
| URL | https://scholar.google.com/citations?view\_op=view\_citation&hl=en&user=UhkxgEQAAAAJ&citation\_for\_view=UhkxgEQAAAAJ:IjCSPb-OGe4C | | |
| Other Related Info. |  | | |
|  | | | |

|  |  |
| --- | --- |
| Abstract |  |
| A steady three-dimensional MHD convective laminar incompressible boundary layer flow due to an infinite rotating disk in an axial uniform magnetic field is studied taking the effect of Hall current. It is assumed that the flow is laminar and the boundary layer thickness depends on the radial distance. Then, by introducing suitable similarity variable η, which is a function of≅ and r, the governing partial differential equations are reduced to nonlinear ordinary differential equations. The similarity equations are then solved numerically by Nachtsheim-Swigert iteration technique. The results are then shown in the form of graphs and tablets. | |