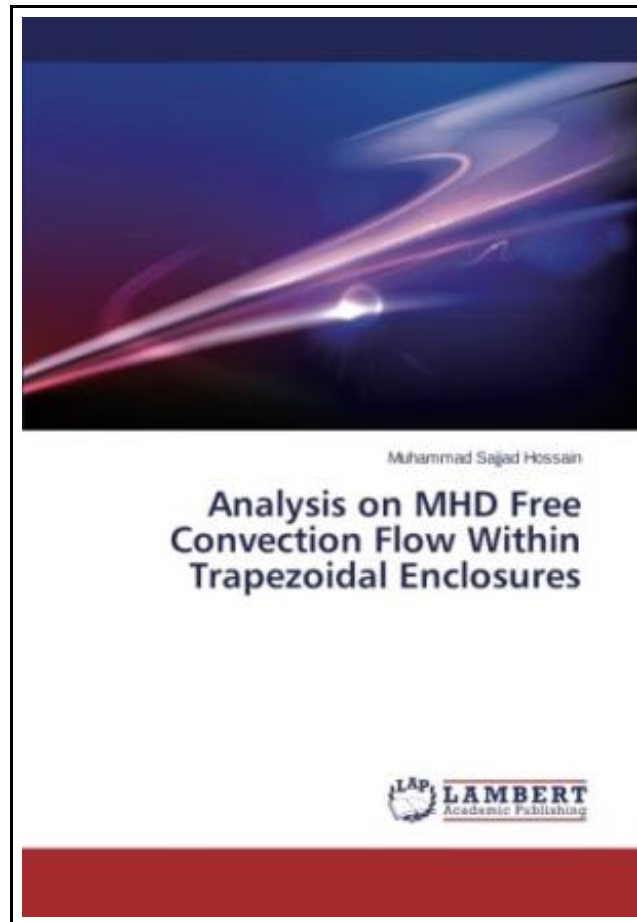# Analysis on MHD Free Convection Flow Within Trapezoidal Enclosures

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ANALYSIS ON MHD FREE CONVECTION FLOW WITHIN TRAPEZOIDAL ENCLOSURES

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LAP Lambert Academic Publishing Apr 2014, 2014. Taschenbuch. Book Condition: Neu. 220x150x4 mm. Neuware - Free convection in trapezoidal enclosures has received considerable attention because of its importance in several thermal engineering problems, for example, in the design of electronic devices, solar thermal receivers, uncovered flat plate solar collectors having rows of vertical strips geothermal reservoirs etc. In my work the title named Analysis on MHD Free Convection Flow Within Trapezoidal Enclosures has been studied. In this study, free convection within a trapezoidal enclosure for uniformly heated bottom wall, insulated top wall and isothermal side walls with inclination angles (f) are considered. Heat flow patterns in the presence of natural convection within trapezoidal enclosures have been analyzed with heatlines concept using magnetic effect. The fluid is concerned for the wide range of Rayleigh number (Ra) from 10^3 to 10^7 and Prandtl number (Pr) from 0.026, 0.7, 1000 and Hartmann number (Ha) with various tilt angles F = 45^0, 30^0 and 0^0(square). The computational results indicate that the average and local Nusselt number at the uniform heating of bottom wall of the enclosure is depending on the dimensionless parameters. 72 pp. Englisch.

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