



# **The Study of Problems of Magnetohydrodynamic Flow: The Study of Problems of Magnetohydrodynamic Flow with Heat Transfer in Presence of Transverse Magnetic Field**

*Basaweshwar Mudagi*

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The study of the MHD flow with heat transfer is a new offshoot of mathematics currently receiving considerable interest. It has wide applications in Geophysics, Astrophysics, Engineering, Aeronautics. The essence of MHD comprises models which help to arrive at optimum decisions. These models constitute the subject of this book. The book considers the problems of the MHD flow with heat transfer. It is written for postgraduate students of Mathematics, Physics, & Engineering. Chapter 1 is a General Introduction which gives i) A brief history of MHD. ii) Some fundamentals of the subject. Chapter 2 consists of important parameters, definitions and basic equations governing the MHD flow with heat transfer. Chapter 3 contains a discussion of the impact of heat transfer in the MHD flow past an infinite vertical plate with time-dependent suction. Chapter 4 deals with the heat transfer aspect in a three-dimensional MHD flow along a porous infinite flat plate in the presence of viscous dissipative heat and a transverse magnetic field. Chapter 5 is an investigation into the effect of an electromagnetic field on generalized Couette flow with heat transfer.

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