

《磁流体流动与传热传质现象的建》

图书基本信息

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内容概要

The primary objective of the book is to provide basic idea on fluid dynamics and its related properties and help to understand research work in the field of transport phenomena in MHD flow. The fluid model describing various aspects of boundary layer flow past a vertical flat surface embedded in Darcian porous media have been studied. An asymptotic periodic transformation is used to solve the dynamical equations. The influence of several physical effects like thermal radiation, chemical reaction, magnetic field, radiation absorption, heat sink etc. have been considered on various fluid properties. In this study some significant engineering properties of interest such as skin-friction, Nusselt number and Sherwood number are also calculated and analyzed through graphs and tables. It is expected that, the governed exact closed form of solutions corresponding to different problems can be used for validating numerical treatment of certain critical flows with heat and mass transfer phenomena.

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