

图书基本信息

书名：<<非线性守恒律流体力学方程组及相关主题>>

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内容概要

This book is a collection of lecture notes on Nonlinear Conservation Laws, Fluid Systems and Related Topics delivered at the 2007 Shanghai Mathematics Summer School held at Fudan University, China, by world's leading experts in the field. The volume comprises five chapters that cover a range of topics from mathematical theory and numerical approximation of both incompressible and compressible fluid flows, kinetic theory and conservation laws, to statistical theories for fluid systems. Researchers and graduate students who want to work in this field will benefit from this essential reference as each chapter leads readers from the basics to the frontiers of the current research in these areas.

书籍目录

Preface
Thomas Y. Hou, Xinwei Yu: Introduction to the Theory of Incompressible Inviscid Flows
Denis Serre: Systems of Conservation Laws. Theory, Numerical Approximation and Discrete Shock Profiles
Seiji Ukai, Tong Yang: Kinetic Theory and Conservation Laws: An Introduction
Xiaoming Wang: Elementary Statistical Theories with Applications to Fluid Systems
Yuxi Zheng: The Compressible Euler System in Two Space Dimensions

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