

<<非线性偏微分方程分析讲义 (第1卷)>>

图书基本信息

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## 内容概要

In this volume, we have collected lecture notes by M. C. Lopes concerning the boundary layers of incompressible fluid flow; by C..1. Xu on the micro-local analysis and its applications to the regularities of kinetic equations; by Y. X. Zheng on the weak solutions of variaUonal wave equation from liquid crystals, and by P. Zhang and Z. R Zhang on the free boundary problem of Euler equations. In addition, we also included the notes by E Nier on the hypoelliptidty of Fokker-Planck operator and Witten-Laplace operator. We hope that the publication of these lecture notes may provide valuable references and up-to-date descriptions of current developments of various related research topics, that will benefit many young researchers or graduate students.

书籍目录

Milton C. Lopes Filho: Boundary Layers and the Vanishing Viscosity Limit for Incompressible 2D Flow  
Francis Nier: Hypocoellipticity for Fokker-Planck Operators and Witten Laplacians  
Chaojiang Xu: Fourier Analysis of Non Cutoff Boltzmann Equations  
Ping Zhang and Zhifei Zhang: On the Free Boundary Problem of 3-D Incompressible Euler Equations  
Yuxi Zheng: An Introduction to a Variational Wave Equation

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