

<<复杂流体中的多尺度问题>>

图书基本信息

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前言

This volume is a collection of lecture notes generated from the first two series of mini-courses of “ Shanghai Summer Sch001 on Analysis and Numerics in Modern Sciences ” held during the summers of 2004 and 2006 at Fudan University , Shanghai , China . The summer school programs attracted more than 130 participants each year , including graduate students , postdoctors , and junior faculty members from more than 30 universities in China and USA . The purpose of the summer school is to promote the interaction and collaboration of researchers with expertise in scientific modeling , mathematical analysis and numerical simulations . The focus of the year 2004 ’ s program was on the study of the multi-scale phenomena in complex fluids . The focus of the year 2006 ’ s program was on multi-scale analysis in nonlinear partial differential equations and their applications . The summer school hosted several mini-courses each year . During the summer of 2004 , the instructors are Weizhu Bao (National University of Singapore) , Thomas Hou (California Institute of Technology, USA) , Chun Liu (Penn State University , USA) , Jianguo Liu (University of Maryland , USA) , Tiehu Qin (Fudan University , PRC) and Qi Wang (Florida State University , USA) . During the summer of 2006 , the mini-courses were taught by Zhaojun Bai and Albert Fannjiang (University of California at Davis , USA) , Thomas HOU , Wenbin Chen and Feng Qiu (Fudan University , PRC) , Chun Liu , and Xiaoming Wang (Florida State University , USA) . There are also short lectures given by many distinguished visitors from around the world . There are five chapters in this volume , covering a wide range of topics in both analysis and numerical simulation methods . as well as their applications . Chapter 1 . by Zhaojun Bai , Wenbin Chen , Richard Scalettar and Ichitaro Yamazaki . is on the numerical methods for quantum Monte Carlo simulations of the Hubbard Models . Chapter 2 , by Albert Fannjiang , is on the wave propagation and imaging in random media . Chapter 3 , by Thomas Hou , is on multi-scale computations for flow and transport in porous media . Chapter 4 , by Chun Liu , is on the energetic variational approaches of elastic complex fluids .

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内容概要

Multi-Scale Phenomena in Complex Fluids is a collection of lecture notes delivered during the first two series of mini-courses from "Shanghai Summer School on Analysis and Numerics in Modern Sciences", which was held in 2004 and 2006 at Fudan University, Shanghai, China. This review volume of five chapters, covering various fields in complex fluids, places emphasis on multi-scale modeling, analysis and simulation. It will be of special interest to researchers and graduate students who want to work in the field of complex fluids.

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书籍目录

Preface Zhaojun Bai, Wenbin Chen, Richard Scalettar, Ichitaro Yamazaki: Numerical Methods for Quantum Monte Carlo Simulations of the Hubbard Model
Albert C. Fannjiang: Introduction to Propagation, Time Reversal and Imaging in Random Media
Thomas Y. Hou: Multiscale Computations for Flow and Transport in Porous Media
Chun Liu: An Introduction of Elastic Complex Fluids: An Energetic Variational Approach
Qi Wang: Introduction to Kinetic Theory for Complex Fluids

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章节摘录

插图：

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