

<<大学物理（上下）>>

图书基本信息

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前言

Physics is the study of the material universe around everyone, including the structure, interactions, and motions of matter and their practical applications. It is the basis of natural science and the source of modern science and technology. The covering scope ranges from the microscopic to the macroscopic world, from science to technology, from sky to the ground, from office to home, and so on. University physics, different from what has been taught in high schools, is calculus-based and vector-represented. This means that differentiation and integration are involved in calculations and some physical quantities are in their vectorial form in which the corresponding algebra and calculus are included. In spite of the wide-scope power of university physics, the most fascinating aspect should be focused on the logical way to deal with the world which is distinct from the imaginary way trained in high schools. The basic concepts and the fundamental principles construct all the problem-solving strategies. It inspires students to deliberately think the world on the basis of the basics and to flexibly utilize the routine to solve the most extensive problems. Just memorizing some formulas would do almost nothing to improve students' ability and such students inevitably feel exhausting what they are studying or what they have studied.

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### 内容概要

本书旨在提高学生的专业英语水平和直接使用英语获取物理知识和从事科研的能力。

其撰写本着内容体系符合中国的培养要求，继承中国基础教育的优势，叙述规范并符合英美习惯，吸收国外教材结合实际的特点，注重科技词汇构成和辨析等。

全书分为上、下两册，包含经典物理和现代物理的内容。

上册包括力学、振动与波、波动光学、分子运动论、热力学基础和狭义相对论；下册包括静电学、导体和电介质、稳恒磁场、磁介质、电磁感应和量子物理学基础。

赠送光盘的内容是教材的精炼部分（含习题和彩图），方便读者学习。

本书适合高等院校理工科各专业大学物理课程的双语教学，也可作为物理学乃至自然科学与国际接轨的参考书。

### 作者简介

Zhangzhiborn in 1959, received his B.Sc. degree in Physics of Radio from Lanzhou University in 1982, M.Eng, degree in Technique of Electromagnetic Measurements and Instruments from Xi'an Jiaotong University in 1990, and Ph.D. in Materials Science and Engineering from Hunan University in 2007. As a professor of physics in Hunan University, he has been engaged in teaching physics for more than 25 years. Besides, his research area covers cluster physics and educational technology. I love my teaching career. Always in my mind lies an idea if I were the teacher from whom my son would learn. If I were the parent of my students what would I do my best and what would their parents expect?

Simultaneously, I try to teach my students not only physics but also the way to deal with physics and even life.

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## 章节摘录

插图：Physics is the study of the material universe around everyone, including the structure, interactions, and motions of matter and their practical applications. It is the basis of natural science and the source of modern science and technology. The coveringscope ranges from the microscopic to the macroscopic world, from science to technology, from sky to the ground, from office to home, and so on. University physics, different from what has been taught in high schools, is calculusbased and vector-represented. This means that differentiation and integration are involved in calculations and some physical quantities are in their vectorial form in which the corresponding algebra and calculus are included. In spite of the wide-scope power of university physics, the most fascinating aspect should be focused on the logical way to deal with the world which is distinct from the imaginary way trained in high schools. The basic concepts and the fundamental principles construct all the problem-solving strategies. It inspires students to deliberately think the world on the basis of the basics and to flexibly utilize the routine to solve the most extensive problems. Just memorizing some formulas would do almost nothing to improve students ability and such students inevitably feel exhausting what they are studying or what they have studied.

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