<<剑桥物理公式手册>>

图书基本信息

书名：<<剑桥物理公式手册>>

13位ISBN编号：9787510027383

10位ISBN编号：7510027381

出版时间：2010-9

出版时间：世界图书出版公司

作者：沃安

页数：220

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前言

The Cambridge Handbook of Physics Formulas is a quick-reference aid for students and pro-fessionals in the physical sciences and engineering. It contains more than 2 000 of the mostuseful formulas and equations found in undergraduate physics courses, covering mathematics,dynamics and mechanics, quantum physics, thermodynamics, solid state physics, electromag-netism, optics, and astrophysics. An exhaustive index allows the required formulas to belocated swiftly and simply, and the unique tabular format crisply identifies all the variablesinvolved.The Cambridge Handbook of Physics Formulas comprehensively covers the major topicsexplored in undergraduate physics courses. It is designed to be a compact, portable, referencebook suitable for everyday work, problem solving, or exam revision. All students andprofessionals in physics, applied mathematics, engineering, and other physical sciences willwant to have this essential reference book within easy reach.

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内容概要

《剑桥物理公式手册》是为物理和工程领域的学生及专业人士编写的一本速查式参考书。
书中包含了2000多条在大学本科物理课程中出现的最常用的公式和方程，涵盖数学、动力学和力学、量子物理学、热力学、固体物理学、电磁学、光学和天体物理学等领域。
详尽的索引可使你简单而快速地找到所需的公式，而统一的表格版式可使你清楚地了解公式中每一个变量所代表的含义。
　　《剑桥物理公式手册》详尽地涵盖了大学本科物理课程的主要方面。
本书设计成一种紧凑、便携的参考书形式，适于在日常工作、解题和考试复习中使用。
所有物理、应用数学、工程和其他自然科学各分支的学生和专业人士都会希望拥有这样一本易查的精华型参考书。

作者简介

作者：（英国）沃安（Graham Woan）

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章节摘录

插图：In A Brief History of Time, Stephen Hawking relates that he was warned against includingequations in the book because each equation, would halve the sales. Despite this direprediction there is, for a scientific audience, some attraction in doing the exact opposite. The reader should not be misled by this exercise. Although the equations and formulascontained here underpin a good deal of physical science they are useless unless the readerunderstands them. Learning physics is not about remembering equations, it is about appreci-ating the natural structures they express. Although its format should help make some topicsclearer, this book is not designed to teach new physics; there are many excellent textbooksto help with that. it is intended to be useful rather than pedagogically complete, so thatstudents can use it for revision and for structuring their knowledge once they understandthe physics. More advanced users will benefit from having a compact, internally consistent,source of equations that can quickly deliver the relationship they require in a format thatavoids the need to sift through pages of rubric.

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