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The Classical Theory of Fields
 Classical Electromagnetic Radiation
 International Series of Monographs in Natural Philosophy
 Electrostatics, Magnetism, Induction, Relativity and Field Theory
 On Electrodynamics, Non-Abelian Gauge Theories and Gravitation
 Classical Electromagnetic Radiation, Third Edition
 Classical Electrodynamics
 Modern Quantum Mechanics
 Mathematics for Physicists
 Classical Electrodynamics
 The Cambridge Companion to Classical Islamic Theology
 Introduction to Electrodynamics
 Core Electrodynamics
 The Physics of Stars
 Part 1: Mechanics, Relativity, and Electrodynamics
 A Student's Guide to Numerical Methods
 Second Edition
 Classical Electromagnetism
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POLLARD YAZMIN

The Classical Theory of Fields CRC Press

This revised edition covers the physics and classical mathematics necessary to understand electromagnetic fields in materials and at surfaces and interfaces.

Classical Electromagnetic Radiation Elsevier

Statistical Mechanics discusses the fundamental concepts involved in understanding the physical properties of matter in bulk on the basis of the dynamical behavior of its microscopic constituents. The book emphasizes the equilibrium states of physical systems. The text first details the statistical basis of thermodynamics, and then proceeds to discussing the elements of ensemble theory. The next two chapters cover the canonical and grand canonical ensemble. Chapter 5 deals with the formulation of quantum statistics, while Chapter 6 talks about the theory of simple gases. Chapters 7 and 8 examine the ideal Bose and Fermi systems. In the next three chapters, the book covers the statistical mechanics of interacting systems, which includes the method of cluster expansions, pseudopotentials, and quantized fields. Chapter 12 discusses the theory of phase transitions, while Chapter 13 discusses fluctuations. The book will be of great use to researchers and practitioners from wide array of disciplines, such as physics, chemistry, and engineering.

International Series of Monographs in Natural Philosophy Springer Science & Business Media

This graduate-level physics textbook provides a comprehensive treatment of the basic principles and phenomena of classical electromagnetism. While many electromagnetism texts use the subject to teach mathematical methods of physics, here the emphasis is on the physical ideas themselves. Anupam Garg distinguishes between electromagnetism in vacuum and that in material media, stressing that the core physical questions are different for each. In vacuum, the focus is on the fundamental content of electromagnetic laws, symmetries, conservation laws, and the implications for phenomena such as radiation and light. In material media, the focus is on understanding the response of the media to imposed fields, the attendant constitutive relations, and the phenomena encountered in different types of media such as dielectrics, ferromagnets, and conductors. The text includes applications to many topical subjects, such as magnetic levitation, plasmas, laser beams, and synchrotrons. *Classical Electromagnetism in a Nutshell* is ideal for a yearlong graduate course and features more than 300 problems, with solutions to many of the advanced ones. Key formulas are given in both SI and Gaussian units; the book includes a discussion of how to convert between them, making it accessible to adherents of both

systems. Offers a complete treatment of classical electromagnetism Emphasizes physical ideas Separates the treatment of electromagnetism in vacuum and material media Presents key formulas in both SI and Gaussian units Covers applications to other areas of physics Includes more than 300 problems

Electrostatics, Magnetism, Induction, Relativity and Field Theory Springer Science & Business Media

Translated from the 6th Russian edition, this latest edition contains seven new sections with chapters on General Relativity, Gravitational Waves and Relativistic Cosmology, where Professor Lifshitz's interests lay. The text of the 3rd English edition has been thoroughly revised and additional problems inserted *On Electrodynamics, Non-Abelian Gauge Theories and Gravitation* Springer

The Physics of Stars, Second Edition, is a concise introduction to the properties of stellar interiors and consequently the structure and evolution of stars. Strongly emphasizing the basic physics, simple and uncomplicated theoretical models are used to illustrate clearly the connections between fundamental physics and stellar properties. This text does not intend to be encyclopaedic, rather it tends to focus on the most interesting and important aspects of stellar structure, evolution and nucleosynthesis. In the Second Edition, a new chapter on Helioseismology has been added, along with a list of physical constants and extra student problems. There is also new material on the Hertzsprung-Russell diagram, as well as a general updating of the entire text. It includes numerous problems at the end of each chapter aimed at both testing and extending student's knowledge.

Classical Electromagnetic Radiation, Third Edition John Wiley & Sons

Practically all of modern physics deals with fields—functions of space (or spacetime) that give the value of a certain quantity, such as the temperature, in terms of its location within a prescribed volume. Electrodynamics is a comprehensive study of the field produced by (and interacting with) charged particles, which in practice means almost all matter. Fulvio Melia's *Electrodynamics* offers a concise, compact, yet complete treatment of this important branch of physics. Unlike most of the standard texts, *Electrodynamics* neither assumes familiarity with basic concepts nor ends before reaching advanced theoretical principles. Instead this book takes a continuous approach, leading the reader from fundamental physical principles through to a relativistic Lagrangian formalism that overlaps with the field theoretic techniques used in other branches of advanced physics. Avoiding unnecessary technical details and calculations, *Electrodynamics* will serve both as a useful supplemental text for graduate and advanced undergraduate students and as a helpful

overview for physicists who specialize in other fields.

Classical Electrodynamics Courier Corporation

This book deals with the physics of spin-polarized free electrons. Many aspects of this rapidly expanding field have been treated in review articles, but to date a self-contained monograph has not been available. In writing this book, I have tried to oppose the current trend in science that sees specialists writing primarily for like-minded specialists, and even physicists in closely related fields understanding each other less than they are inclined to admit. I have attempted to treat a modern field of physics in a style similar to that of a textbook. The presentation should be intelligible to readers at the graduate level, and while it may demand concentration, I hope it will not require deciphering. If the reader feels that it occasionally dwells upon rather elementary topics, he should remember that this pedestrian excursion is meant to be reasonably self-contained. It was, for example, necessary to give a simple introduction to the Dirac theory in order to have a basis for the discussion of Mott scattering—one of the most important techniques in polarized electron studies.

Cambridge University Press

A plain language style, worked examples and exercises help students to understand the foundations of computational physics and engineering.

Modern Quantum Mechanics Springer

This excellent text covers a year's course. Topics include vectors D and H inside matter, conservation laws for energy, momentum, invariance, form invariance, covariance in special relativity, and more.

Mathematics for Physicists ALPHA SCIENCE INTERNATIONAL LIMITED

Classical Electrodynamics John Wiley & Sons

Classical Electrodynamics Cambridge University Press

Superb text provides math needed to understand today's more advanced topics in physics and engineering. Theory of functions of a complex variable, linear vector spaces, much more. Problems. 1967 edition.

The Cambridge Companion to Classical Islamic Theology Courier Dover Publications

Newly corrected, this edition of a highly acclaimed text is suitable for advanced physics courses. Its accessible macroscopic view of classical electromagnetics emphasizes integrating electromagnetic theory with physical optics. 1994 edition.

Introduction to Electrodynamics Courier Corporation

An engaging writing style and a strong focus on the physics make this graduate-level textbook a must-have for electromagnetism students.

Core Electrodynamics John Wiley & Sons

This book is intended as an undergraduate textbook in

electrodynamics at basic or advanced level. The objective is to attain a general understanding of the electrodynamic theory and its basic experiments and phenomena in order to form a foundation for further studies in the engineering sciences as well as in modern quantum physics. The outline of the book is obtained from the following principles: • Base the theory on the concept of force and mutual interaction • Connect the theory to experiments and observations accessible to the student • Treat the electric, magnetic and inductive phenomena cohesively with respect to force, energy, dipoles and material • Present electrodynamics using the same principles as in the preceding mechanics course • Aim at explaining that theory of relativity is based on the magnetic effect • Introduce field theory after the basic phenomena have been explored in terms of force Although electrodynamics is described in this book from its 1st principles, prior knowledge of about one semester of university studies in mathematics and physics is required, including vector algebra, integral and differential calculus as well as a course in mechanics, treating Newton's laws and the energy principle. The target groups are physics and engineering students, as well as professionals in the field, such as high school teachers and employees in the telecom industry. Chemistry and computer science students may also benefit from the book.

The Physics of Stars University of Chicago Press

This series of critical reflections on the evolution and major themes of pre-modern Muslim theology begins with the revelation of the Koran, and extends to the beginnings of modernity in the eighteenth century. The significance of Islamic theology reflects the immense importance of Islam in the history of monotheism, to which it has brought a unique approach and style, and a range of solutions which are of abiding interest. Devoting especial attention to questions of rationality, scriptural fidelity, and the construction of 'orthodoxy', this volume introduces key Muslim theories of revelation, creation, ethics, scriptural interpretation, law, mysticism, and eschatology. Throughout the treatment is firmly set in the historical, social and political context in which Islam's distinctive understanding of God evolved. Despite its importance, Islamic theology has been neglected in recent scholarship, and this book provides a unique, scholarly but accessible introduction.

Part 1: Mechanics, Relativity, and Electrodynamics John Wiley & Sons

Classical Electrodynamics captures Schwinger's inimitable lecturing style, in which everything flows inexorably from what has gone before. Novel elements of the approach include the

immediate inference of Maxwell's equations from Coulomb's law and (Galilean) relativity, the use of action and stationary principles, the central role of Green's functions both in statics and dynamics, and, throughout, the integration of mathematics and physics. Thus, physical problems in electrostatics are used to develop the properties of Bessel functions and spherical harmonics. The latter portion of the book is devoted to radiation, with rather complete treatments of synchrotron radiation and diffraction, and the formulation of the mode decomposition for waveguides and scattering. Consequently, the book provides the student with a thorough grounding in electrodynamics in particular, and in classical field theory in general, subjects with enormous practical applications, and which are essential prerequisites for the study of quantum field theory. An essential resource for both physicists and their students, the book includes a 'Reader's Guide,' which describes the major themes in each chapter, suggests a possible path through the book, and identifies topics for inclusion in, and exclusion from, a given course, depending on the instructor's preference. Carefully constructed problems complement the material of the text, and introduce new topics. The book should be of great value to all physicists, from first-year graduate students to senior researchers, and to all those interested in electrodynamics, field theory, and mathematical physics. The text for the graduate classical electrodynamics course was left unfinished upon Julian Schwinger's death in 1994, but was completed by his coauthors, who have brilliantly recreated the excitement of Schwinger's novel approach.

A Student's Guide to Numerical Methods Classical Electrodynamics

Scheck's successful textbook presents a comprehensive treatment, ideally suited for a one-semester course. The textbook describes Maxwell's equations first in their integral, directly testable form, then moves on to their local formulation. The first two chapters cover all essential properties of Maxwell's equations, including their symmetries and their covariance in a modern notation. Chapter 3 is devoted to Maxwell's theory as a classical field theory and to solutions of the wave equation. Chapter 4 deals with important applications of Maxwell's theory. It includes topical subjects such as metamaterials with negative refraction index and solutions of Helmholtz' equation in paraxial approximation relevant for the description of laser beams. Chapter 5 describes non-Abelian gauge theories from a classical, geometric point of view, in analogy to Maxwell's theory as a prototype, and culminates in an application to the $U(2)$ theory relevant for electroweak interactions. The last chapter 6 gives a

concise summary of semi-Riemannian geometry as the framework for the classical field theory of gravitation. The chapter concludes with a discussion of the Schwarzschild solution of Einstein's equations and the classical tests of general relativity. The new concept of this edition presents the content divided into two tracks: the fast track for master's students, providing the essentials, and the intensive track for all wanting to get in depth knowledge of the field. Clearly labeled material and sections guide students through the preferred level of treatment. Numerous problems and worked examples will provide successful access to Classical Field Theory.

Second Edition Cambridge University Press

This book is devoted to the fundamentals of classical electrodynamics, one of the most beautiful and productive theories in physics. A general survey on the applicability of physical theories shows that only few theories can be compared to electrodynamics. Essentially, all electric and electronic devices used around the world are based on the theory of electromagnetism. It was Maxwell who created, for the first time, a unified description of the electric and magnetic phenomena in his electromagnetic field theory. Remarkably, Maxwell's theory contained in itself also the relativistic invariance of the special relativity, a fact which was discovered only a few decades later. The present book is an outcome of the authors' teaching experience over many years in different countries and for different students studying diverse fields of physics. The book is intended for students at the level of undergraduate and graduate studies in physics, astronomy, engineering, applied mathematics and for researchers working in related subjects. We hope that the reader will not only acquire knowledge, but will also grasp the beauty of theoretical physics. A set of about 130 solved and proposed problems shall help to attain this aim.

Classical Electromagnetism John Wiley & Sons

Newly corrected, this highly acclaimed text is suitable for advanced physics courses. The authors present a very accessible macroscopic view of classical electromagnetics that emphasizes integrating electromagnetic theory with physical optics. The survey follows the historical development of physics, culminating in the use of four-vector relativity to fully integrate electricity with magnetism. Corrected and emended reprint of the Brooks/Cole Thomson Learning, 1994, third edition.

Electrodynamics Springer Science & Business Media

New edition of a classic textbook, introducing students to electricity and magnetism, featuring SI units and additional examples and problems.

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