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The book describes the features that vibrations and waves of all sorts have in common and includes examples of mechanical, acoustical, and optical manifestations of these phenomena that unite various parts of physics. The main emphasis, however, is on the oscillatory aspects of the electromagnetic field--that is, on the vibrations, waves, radiation, and the interaction of electromagnetic waves with matter. This text was developed over a five-year period during which its authors were teaching the subject. It is the culmination of successful editions of class notes and preliminary texts prepared for their one-semester course at MIT designed for sophomores majoring in physics but taken by students from other departments as well. The book describes the features that vibrations and waves of all sorts have in common and includes examples of mechanical, acoustical, and optical manifestations of these phenomena that unite various parts of physics. The main emphasis, however, is on the oscillatory aspects of the electromagnetic field--that is, on the vibrations, waves, radiation, and the interaction of electromagnetic waves with matter. The content is designed primarily for the use of second or third year students of physics who have had a semester of mechanics and a semester of electricity and magnetism. The aim throughout is to provide a mathematically unsophisticated treatment of the subject, but one that stresses modern applications of the principles involved. Descriptions of devices that embody such principles--such as seismometers, magnetrons, thermo-nuclear fusion experimental configurations, and lasers--are introduced at appropriate points in the text to illustrate the theoretical concepts. Many illustrations from astrophysics are also included.

This textbook offers clear explanations of optical spectroscopic phenomena and shows how spectroscopic techniques are used in modern molecular and cellular biophysics and biochemistry. The topics covered include electronic and vibrational absorption, fluorescence, resonance energy transfer, exciton interactions, circular dichroism, coherence and dephasing, ultrafast pump-probe and photon-echo spectroscopy, single-molecule and fluorescence-correlation spectroscopy, Raman scattering, and multiphoton absorption. This revised and updated edition provides expanded discussions of quantum optics, metal-ligand charge-transfer transitions, entropy changes during photoexcitation, electron transfer from excited molecules, normal-mode calculations, vibrational Stark effects, studies of fast processes by resonance energy transfer in single molecules, and two-dimensional electronic and vibrational spectroscopy. The explanations are sufficiently thorough and detailed to be useful for researchers and graduate students and advanced undergraduates in chemistry, biochemistry and biophysics. They are based on time-dependent quantum mechanics, but are developed from first principles with a clarity that makes them accessible to readers with little prior training in this field. Extra topics and highlights are featured in special boxes throughout the text. The author also provides helpful exercises for each chapter.

This book fills a gap between many of the basic solid state physics and materials science books that are currently available. It is written for a mixed audience of electrical engineering and applied physics students who have some knowledge of elementary undergraduate quantum mechanics and statistical mechanics. This book, based on a successful course taught at MIT, is divided pedagogically into three parts: (I) Electronic Structure, (II) Transport Properties, and (III) Optical Properties. Each topic is explained in the context of bulk materials and then extended to low-dimensional materials where applicable. Problem sets review the content of each chapter to help students to understand the material described in each of the chapters more deeply and to prepare them to master the next chapters.

Authored by a highly regarded plasma scientist, this book fills the gap for a topical reference and source with a professional audience in mind. While the use of this critical method at the international fusion reactor, ITER, is covered in detail, the

monograph also includes planetary magnetospheres and plasma sources for commercial applications. With exercises and solutions for additional use as course reading.

Although it is one of the oldest sectors of electronics and now somewhat taken for granted, radio frequency transmission literally changed our world. Today, it is still the backbone of myriad applications, from broadcasting to electronic counter-measures. The wide variety of hardware in use means that those working in the field must be familiar with a multitude of principles and applications, but finding an up-to-date, comprehensive source for this background material has been difficult, if not impossible. The RF Transmission Systems Handbook addresses the underlying concepts, operation, and maintenance of high-power RF devices, transmission lines, and antennas for broadcast, scientific, and industrial use. Focusing on devices and systems that produce more than one kilowatt of output power, the handbook explores the following major topics: Applications: The common uses of radio frequency energy Fundamental principles: The basic technologies, concepts, and techniques used in RF transmission Power vacuum devices: The principles and applications of gridded vacuum tubes and microwave power devices Solid-state power devices: The operating parameters of semiconductor-based power devices RF components and transmission lines: The operation of hardware used to combine and conduct RF power Antenna systems: The different types of antennas and their basic operating parameters Troubleshooting: Basic troubleshooting techniques and the operation of important test instruments Contrary to the perceptions of many, RF technology remains a dynamic field that continues to advance to higher power levels and higher frequencies. Those who specify, install, and maintain RF equipment will welcome this reference that uniquely serves their needs.

The high scientific interest in coherent X-ray light sources has stimulated world-wide efforts in developing X-ray lasers. In this book a particularly promising approach is described, the free-electron laser (FEL), which is pursued worldwide and holds the promise to deliver ultra-bright X-ray pulses of femtosecond duration. Other types of X-ray lasers are not discussed nor do we try a comparison of the relative virtues and drawbacks of different concepts. The book has an introductory character and is written in the style of a university textbook for the many newcomers to the field of free-electron lasers, graduate students as well as accelerator physicists, engineers and technicians; it is not intended to be a scientific monograph for the experts in the field. Building on lectures by one of us (J. R.) at the CERN Accelerator School, and motivated by the positive response to a series of seminars on "FEL theory for pedestrians", given by P. S. within the framework of the Academic Training Program at DESY, we have aimed at presenting the theory of the low-gain and the high-gain FEL in a clear and concise mathematical language. Particular emphasis is put on explaining and justifying the assumptions and approximations that are needed to obtain the differential equations describing the FEL dynamics. Although we have tried our best to be "simple", the mathematical derivations are certainly not always as simple as one would like them to be. However, we are not aware of any easier approach to the FEL theory. Some of the more involved calculations are put into the appendices.

Gauss's law for electric fields, Gauss's law for magnetic fields, Faraday's law, and the Ampere–Maxwell law are four of the most influential equations in science. In this guide for students, each equation is the subject of an entire chapter, with detailed, plain-language explanations of the physical meaning of each symbol in the equation, for both the integral and differential forms. The final chapter shows how Maxwell's equations may be combined to produce the wave equation, the basis for the electromagnetic theory of light. This book is a wonderful resource for undergraduate and graduate courses in electromagnetism and electromagnetics. A website hosted by the author at [www.cambridge.org/9780521701471](http://www.cambridge.org/9780521701471) contains interactive solutions to every problem in the text as well as audio podcasts to walk students through each chapter.

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