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Fundamentals of Optical Fiber Sensor Technology The field of optical fiber sensors continues to expand and develop, being increasingly influenced by new applications of the technologies that have been the topics of research for some years. In this way, the subject continues to mature and reach into new areas of engineering. This text in the series on Optical Fiber Sensor Technology provides a foundation for a better understanding of those developments in the basic science and its applications in fiber sensors, underpinning the subject today. This book builds upon the work in an earlier single volume which covered a broad area of the subject, but which now, in this, volume 1 of the series, focuses upon the fundamentals and essentials of the technology. Material which is included has been carefully reviewed and in most cases thoroughly revised and expanded to reflect the current state of the subject, and provide an essential background for the more applications-oriented content of the subsequent volumes of the series. This volume opens with a status paper

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on optical fiber sensor technology, by Kenneth Grattan and Tong Sun providing in it a flavor of the main topics in the field and giving an essential overview at the sort of systems which are discussed in more detail in the other chapters in the whole series. An extensive publication list of readily accessible papers reflecting these topics is included.

Introduction to Laser Spectroscopy is a well-written, easy-to-read guide to understanding the fundamentals of lasers, experimental methods of modern laser spectroscopy and applications. It provides a solid grounding in the fundamentals of many aspects of laser physics, nonlinear optics, and molecular spectroscopy. In addition, by comprehensively combining theory and experimental techniques it explicates a variety of issues that are essential to understanding broad areas of physical, chemical and biological science. Topics include key laser types - gas, solid state, and semiconductor - as well as the rapidly evolving field of ultrashort laser phenomena for femtochemistry applications. The examples used are well researched and clearly presented. Introduction to Laser Spectroscopy is strongly recommended to newcomers as well as researchers in physics, engineering, chemistry and biology. * A comprehensive course that combines theory and practice * Includes a systematic and comprehensive description for key laser types * Written for students and professionals looking to gain a thorough understanding of modern laser spectroscopy

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Emphasizes the theory of semiconductor optoelectronic devices, demonstrating comparisons between theoretical and experimental results. Presents such important topics as semiconductor heterojunctions and band structure calculations near the band edges for bulk and quantum-well semiconductors. Details semiconductor lasers including double-heterostructure, stripe-geometry gain-guided semiconductor, distributed feedback and surface-emitting. Systematically investigates high-speed modulation of semiconductor lasers using linear and nonlinear gains. Features new subjects such as the theories on the band structures of strained semiconductors and strained quantum-well lasers. Covers key areas behind the operation of semiconductor lasers, modulators and photodetectors. An Instructor's Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department

Finding viable solutions to many of the problems threatening our environment hinges on understanding the rocks below the earth's surface. For those evaluating the relative hazards of radioactive waste sites, investigating energy resources such as oil, gas, and hydrothermal energy, studying the behavior of natural hazards like earthquakes and volcanoes, or charting the flow of groundwater through the earth, this book will be indispensable. Until now, there has been no book that treats the subject of the nature and behavior of rocks in a comprehensive yet accessible manner. Yves Gu guen and Victor Palciauskas first discuss the physical properties of rocks, proceeding by chapter through mechanical, fluid flow, acoustical, electrical, dielectric, thermal, and magnetic properties. Then they provide the theoretical framework for

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achieving reliable data and making reasonable inferences about the aggregate system within the earth. Introduction to the Physics of Rocks covers the important and most current theoretical approaches to the physics of inhomogeneous media, including theoretical bounds on properties, various effective medium theories, percolation, and fractals. This book will be of use to students and researchers in civil, petroleum, and environmental engineering and to geologists, geophysicists, hydrologists, and other earth scientists interested in the physics of the earth. Its clear presentation, with problems at the end of each chapter and selective references, will make it ideal for advanced undergraduate-or graduate-level courses.

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