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SAFA KASAP is currently a Professor of Electronic Materials and Devices in the Electrical Engineering Department at the University of Saskatchewan, Canada. He obtained the B.S.E.E. (1976), M.S. (1978), and Ph.D. (1983) degrees from Imperial College of Science, Technology and Medicine, University of London, specializing in amorphous semiconductors and optoelectronics.

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This book takes a fresh look at the last three decades and enormous developments in the new electro-optic devices and associated materials. General Treatment and various proofs are at a semiquantitative level without going into detailed physics. Contains numerous worked examples and solved problems. Chapter topics include wave nature of light, dielectric waveguides and optical fibers, semiconductor science and light emitting diodes, photodetectors, photovoltaic devices, and polarization and modulation of light. For the study of optoelectronics by electrical engineers. For one-semester, undergraduate-level courses in Optoelectronics and Photonics, in the departments of electrical engineering, engineering physics, and materials science and engineering. This text takes a fresh look at the enormous developments in electro-optic devices and associated materials.

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The second, updated edition of this essential reference book provides a wealth of detail on a wide range of electronic and photonic materials, starting from fundamentals and building up to advanced topics and applications. Its extensive coverage, with clear illustrations and applications, carefully selected chapter sequencing and logical flow, makes it very different from other electronic materials handbooks. It has been written by professionals in the field and instructors who teach the subject at a university or in corporate laboratories. The Springer Handbook of Electronic and Photonic Materials, second edition, includes practical applications used as examples, details of experimental techniques, useful tables that summarize equations, and, most importantly, properties of various materials, as well as an extensive glossary. Along with significant updates to the content and the references, the second edition includes a number of new chapters such as those covering novel materials and selected applications. This handbook is a valuable resource for graduate students, researchers and practicing professionals working in the area of electronic, optoelectronic and photonic materials.

An introduction to photonics and lasers that does not rely oncomplex mathematics
This book evolved from a series of courses developed by the authorand taught in the areas of lasers and photonics. This thoroughlyclassroom-tested work fills a unique need for students,instructors, and industry professionals in search of anintroductory-level book that covers a wide range of topics in theseareas. Comparable books tend to be aimed either too high or toolow, or they cover only a portion of the topics that are needed fora comprehensive treatment. Photonics and Lasers is divided into four parts:
* Propagation of Light
* Generation and Detection of Light
* Laser Light
* Light-Based Communication
The author has ensured that complex mathematics does not become anobstacle to understanding key physical concepts. Physical argumentsand explanations are clearly set forth while, at the same time,sufficient mathematical detail is provided for a quantitativeunderstanding. As an additional aid to readers who are learning tothink symbolically, some equations are expressed in words as wellas symbols. Problem sets are provided throughout the book for readers to testtheir knowledge and grasp of key concepts. A solutions manual isalso available for instructors. Finally, the detailed bibliographyleads readers to in-depth explorations of particular topics. The book's topics, lasers and photonics, are often treatedseparately in other texts; however, the author skillfullydemonstrates their natural synergy. Because of the combinedcoverage, this text can be used for a two-semester course or aone-semester course emphasizing either lasers or photonics. This isa perfect introductory textbook for both undergraduate and graduatetestudents, additionally serving as a practical reference forengineers in telecommunications, optics, and laser electronics.

Photonic devices lie at the heart of the communications revolution, and have become a large and important part of the electronic engineering field, so much so that many colleges now treat this as a subject in its own right. With this in mind, the author has put together a unique textbook covering every major photonic device, and striking a careful balance between theoretical and practical concepts. The book assumes a basic knowledge of optics, semiconductors and electromagnetic waves. Many of the key background concepts are reviewed in the first chapter. Devices covered include optical fibers, couplers, electro-optic devices, magneto-optic devices, lasers and photodetectors. Problems are included at the end of each chapter and a solutions set is available. The book is ideal for senior undergraduate and graduate courses, but being device driven it is also an excellent engineers' reference.

This introductory book assumes minimal knowledge of the existence of integrated circuits and of the terminal behavior of electronic components such as resistors, diodes, and MOS and bipolar transistors. It presents to readers the basic information necessary for more advanced processing and design books. Focuses mainly on the basic processes used in fabrication, including lithography, oxidation, diffusion, ion implementation, and thin film deposition. Covers interconnection technology, packaging, and yield. Appropriate for readers interested in the area of fabrication of solid state devices and integrated circuits.

An overview of the optical effects in solids, addressing the physics of various materials and their response to electromagnetic radiation. The discussion includes metals, semiconductors, superconductors, and insulators. The book begins by introducing the dielectric function into Maxwell's macroscopic equations and finding their plane-wave solution. The physics governing the dielectric function of various materials is then covered, both classically and using basic quantum mechanics. Advanced topics covered include interacting electrons, the anomalous skin effect, anisotropy, magneto-optics, and inhomogeneous materials. Each subject begins with a connection to the basic physics of the particular solid, after which the measurable optical quantities are derived. It allows the reader to connect measurements (reflectance, optical conductivity and dielectric function) with the underlying physics of solids. Methods of analysing experimental data are addressed, making this an ideal resource for students and researchers interested in solid state physics, optics, and materials science.

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