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(PDF) Fundamentals of Photonics, 3rd Edition
Fundamentals Of Photonics Saleh Solutions "Fundamentals of Photonics" is still the definitive book on the generation of coherent light by lasers and incoherent light by sources such as light-emitting diodes, light transmission through optical devices, and the detection of light by semiconductor Page 9/32

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In recent years, photonics has found increasing applications in such areas as communications, signal processing, computing, sensing, display, printing, and energy transport. Now, Fundamentals of Photonics is the first self-contained introductory-level textbook to offer a thorough survey of this rapidly expanding area of engineering and applied physics. Featuring a logical blend of theory and applications, coverage includes detailed accounts of the primary theories of light, including ray optics, wave optics, electromagnetic optics, and photon optics, as well as the interaction of light with matter, and the theory of semiconductor materials and their optical properties. Presented at increasing levels of complexity, these sections serve as building blocks for the treatment of more advanced topics, such as Fourier optics and holography, guidedwave and fiber optics, photon sources and detectors, electro-optic and acousto-optic devices, nonlinear optical devices, fiber-optic communications, and photonic switching and computing. Included are such vital topics as: Generation of coherent light by lasers, and incoherent light by luminescence sources such as light-emitting diodes Transmission of light through optical components (lenses,

apertures, and imaging systems), waveguides, and fibers Modulation, switching, and scanning of light through the use of electrically, acoustically, and optically controlled devices Amplification and frequency conversion of light by the use of wave interactions in nonlinear materials Detection of light by means of semiconductor photodetectors Each chapter contains summaries, highlighted equations, problem sets and exercises, and selected reading lists. Examples of real systems are included to emphasize the concepts governing applications of current interest, and appendices summarize the properties of one- and two-dimensional Fourier transforms, linear-systems theory, and modes of linear systems. An Instructor's Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department.

Fundamentals of Photonics A complete, thoroughly updated, full-color third edition Fundamentals of Photonics, Third Edition is a self-contained and up-to-date introductory-level textbook that thoroughly surveys this rapidly expanding area of engineering and applied physics. Featuring a blend of theory and applications, coverage includes detailed accounts of the primary theories of light, including ray optics, wave optics, electromagnetic optics, and photon optics, as well as the interaction of light and matter. Presented at increasing levels of complexity, preliminary sections build toward more advanced topics, such as Fourier optics and holography, photonic-crystal optics, guided-wave and fiber optics, LEDs and lasers, acousto-optic and electro-optic devices, nonlinear optical devices, ultrafast optics, optical interconnects and switches, and optical fiber communications. The third edition features an entirely new chapter on the optics of metals and plasmonic devices. Each chapter contains highlighted equations, exercises, problems, summaries, and selected reading lists. Examples of real systems are included to emphasize the concepts governing applications of current interest. Each of the twenty-four chapters of the second edition has been thoroughly updated.

Fundamentals of Photonics: A complete, thoroughly updated, full-color second edition Now in a new full-color edition, Fundamentals of Photonics, Second Edition is a self-contained and up-to-date introductory-level textbook that thoroughly surveys this rapidly expanding area of engineering and applied physics. Featuring a logical blend of theory and applications, coverage includes detailed accounts of the primary theories of light, including ray optics, wave optics, electromagnetic optics, and photon optics, as well as the interaction of photons and atoms, and semiconductor optics. Presented at increasing levels of complexity, preliminary sections build toward more advanced topics, such as Fourier optics and holography, guided-wave and fiber optics, semiconductor sources and detectors, electro-optic and acousto-optic devices, nonlinear optical devices, optical interconnects and switches, and optical fiber communications. Each of the twenty-two chapters of the first edition has been thoroughly updated. The Second Edition also features entirely new chapters on photonic-crystal optics (including multilayer and periodic media, waveguides, holey fibers, and resonators) and ultrafast optics (including femtosecond optical pulses, ultrafast nonlinear optics, and optical solitons). The chapters on optical interconnects and switches and optical fiber communications have been completely rewritten to accommodate current technology. Each chapter contains summaries, highlighted equations, exercises, problems, and selected reading lists. Examples of real systems are included to emphasize the concepts governing applications of current interest.

With the recent great expansion in optics and laser applications, several new areas of research have emerged, among which are: the theory of coherence, photon statistics, speckle phenomenon, statistical optics, atmospheric propa gation, optical communications, and light-beating and photon-correlation spectroscopy. A factor common to these overlapping subjects is their basic dependence on the treatment of light as a randomly fluctuating excitation. Moreover, they all necessitate a thorough understanding of the phenomenon of light detection and the additional randomness it introduces. My objective in writing this book is to provide a unified and general presentation of a basic theoretical background central to these areas. This book has a threefold purpose: to present a systematic treatment of the statistical properties of optical fields, to develop methods for deter mining the statistics of the photoelectron events that are generated when such fields are intercepted by photodetectors, and to examine methods of estimating unknown field parameters from measurements of the photoelectron events. Emphasis is placed on the photoelectron measurements that yield in formation pertinent to spectroscopy and optical communication. Although some books that treat the theory of coherence and the statisti cal properties of light are available, the vast body of information central to problems of photoelectron statistics and its applications is scattered in various professional journals and conference proceedings.

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 graduatestudents, additionally serving as a practical reference forengineers in telecommunications, optics, and laser electronics.

Provides a particularly good discussion of the electromagnetics of light in bounded media (i.e., fibers). * The only book that treats the two complementary topics, fiber and integrated optics. * A careful and thorough presentation of the topics that make it well suited for self-study. * Includes numerous figures, problems and worked-out solutions. * Discusses all the topics essential to modern optical communication systems including optical fibers, quantum electronics, optical amplifiers, and lasers among others. * Concludes with a chapter that applies the design skills developed throughout the book to realistic problems in fiber optic communication systems. * Heavily illustrated with over 300 figures specially formatted to aid in comprehension.

Describing and evaluating the basic principles and methods of subsurface sensing and imaging, Introduction to Subsurface Imaging is a clear and comprehensive treatment that links theory to a wide range of real-world applications in medicine, biology, security and geophysical/environmental exploration. It integrates the different sensing techniques (acoustic, electric, electromagnetic, optical, x-ray or particle beams) by unifying the underlying physical and mathematical similarities, and computational and algorithmic methods. Time-domain, spectral and multisensor methods are also covered, whilst all the necessary mathematical, statistical and linear systems tools are given in useful appendices to make the book self-contained. Featuring a logical blend of theory and applications, a wealth of color illustrations, homework problems and numerous case studies, this is suitable for use as both a course text and as a professional reference.

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Deals with photonics in free space and special media such as anisotropic crystals. * Covers all important topics from Fourier optics, such as the properties of lenses, optical image processing, and holography to the Gaussian beam, light propagation in anisotropic media, external field effects, polarization of light and its major applications. * The book is self-contained and is suitable as a textbook for a two-semester course. * Provides a particularly good discussion of the electromagnetics of light in bounded media. * Only book that treats the two complementary topics, fiber and integrated optics. * Careful and thorough presentation of the topics that makes it well suited for courses and self study. * Includes numerous figures, problems and worked-out solutions. * Heavily illustrated with over 400 figures specially formatted to aid in comprehension.