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Problems after each chapter Preface -- Combinatorics -- Probability -- Expectation values -- Distributions -- Gaussian approximations -- Correlation and regression -- Appendices. An enlightening guide to optics Are you in the dark when it comes to understanding the science of optics? Now there's a glimmer in the gloom! Optics Demystified brings this challenging topic into focus. Written in an easy-to-follow format, this practical guide begins by covering the nature of light, the electromagnetic spectrum, reflection, refraction, and color dispersion. You'll move on to common optical devices and effects, lasers, and optical data transmission technology. Industrial, medical, and military applications are discussed, as are exotic optics such as holography. Detailed examples and concise explanations make it easy to understand the material, and end-of-chapter quizzes and a final exam help reinforce learning. It's a no-brainer! You'll get: Explanations of the particle and wave theories Analysis of optical microscopes and telescopes Functional details of fiber optics A sampling of optical illusions A time-saving approach to performing better on an exam or at work Simple enough for a beginner but challenging enough for an advanced student, Optics Demystified illuminates this vital physics topic. Introduction to Optics is now available in a re-issued edition from Cambridge University Press. Designed to offer a comprehensive and engaging introduction to intermediate and upper level undergraduate physics and engineering

students, this text also allows instructors to select specialized content to suit individual curricular needs and goals. Specific features of the text, in terms of coverage beyond traditional areas, include extensive use of matrices in dealing with ray tracing, polarization, and multiple thin-film interference; three chapters devoted to lasers; a separate chapter on the optics of the eye; and individual chapters on holography, coherence, fiber optics, interferometry, Fourier optics, nonlinear optics, and Fresnel equations. This renowned text applies the powerful mathematical methods of Fourier analysis to the analysis and synthesis of optical systems. These ubiquitous mathematical tools provide unique insights into the capabilities and limitations of optical systems in both imaging and information processing and lead to many fascinating applications, including the field of holography. 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, guided-wave 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. This is the first book dedicated exclusively to all-reflective imaging systems. It is a teaching tool as well as a practical design tool for anyone who specializes in optics, particularly for those interested in telescopes, infrared, and grazing-incidence systems. The first part of the book describes a unified geometric optical theory of all-reflective imaging systems (from near-normal to grazing incidence) developed from basic principles. The second part discusses correction methods and a multitude of closed-form solutions of well-corrected systems, supplemented with many conventional and unconventional designs examples. This book will be useful to anyone interested in the theory of optical image formation and in the actual design of image-forming instruments. Geometrical optics (1001-1041) - Wave optics (2001-2089) - Quantum optics (3001-3030). *Modern Optics* is a fundamental study of the principles of optics using a rigorous physical approach based on Maxwell's Equations. The treatment provides the mathematical foundations needed to understand a number of applications such as laser optics, fiber optics and medical imaging covered in an engineering curriculum as well as the traditional topics covered in a physics based course in optics. In addition to treating the fundamentals in optical science, the student is given an exposure to actual optics engineering problems such as paraxial matrix optics, aberrations with experimental examples, Fourier transform optics (Fresnel-Kirchhoff

formulation), Gaussian waves, thin films, photonic crystals, surface plasmons, and fiber optics. Through its many pictures, figures, and diagrams, the text provides a good physical insight into the topics covered. The course content can be modified to reflect the interests of the instructor as well as the student, through the selection of optional material provided in appendixes. Optics has been a subject of fascinating investigation in the last three centuries by a large number of eminent scientists. With the advent of modern technologies (Personal Computers, Internet and specialized software like MATLAB), new methods and tools for the solution of problems encountered in Optics are now available. Written with the student of Physics and Engineering in mind, this textbook shows how to solve the typical examination questions. In addition the author has included the solutions of many real and difficult problems encountered by the practicing Physicists and Engineers. The book is liberally and beautifully illustrated with diagrams from the MATLAB software. Readers can refer to MATLAB scripts using a complementary virtual booklet (www.optics-as.com) that will also include corrections, to unavoidable errors present in this book, supplementary problems, and readers' suggestions. Introduction to Fiber Optics is well established as an introductory text for engineers, managers and students. It meets the needs of systems designers, installation engineers, electronic engineers and anyone else looking to gain a working knowledge of fiber optics with a minimum of maths. Review questions are included in the text to enable the reader to check their understanding as they work through the book. The new edition of this successful book is now fully up to date with the new standards, latest technological developments and includes a new chapter on specifying optical components. Whether you are looking for a complete self-study course in fiber optics, a concise reference text to dip into, or a readable introduction to this fast moving technology, this book has the solution.

- * A practical, no-nonsense guide to fiber optics
- * Up-to-date coverage that minimises mathematics
- * New material on specifying optical components

A comprehensive and engaging textbook, covering the main areas of optics and its modern applications. Presents a fully updated, self-contained textbook covering the core theory and practice of both classical and modern optical microscopy techniques. A complete basic undergraduate course in modern optics for students in physics, technology, and engineering. The first half deals with classical physical optics; the second, quantum nature of light. Solutions. Practical guide shows how to set up working models of telescopes, microscopes, photographic lenses and projecting systems; how to conduct experiments for determining accuracy, resolving power, more. 234 diagrams. The text is a comprehensive and up-to-date introduction to optics suitable for one- or two-term intermediate and upper level undergraduate physics and engineering students. The reorganized table of contents provides instructors the flexibility to tailor the chapters to meet their individual needs. Introduction to Nonimaging Optics covers the theoretical foundations and design methods of nonimaging optics, as well as key concepts from related fields. This fully updated, revised, and expanded Second Edition: Features a new and intuitive introduction with a basic description of the advantages of nonimaging optics Adds new chapters on wavefronts for a prescribed output (irradiance or intensity), infinitesimal étendue optics (generalization of the aplanatic optics), and Köhler optics and color mixing Incorporates new material on the simultaneous multiple surface (SMS) design method in 3-D, integral invariants, and étendue 2-D Contains 21 chapters, 24 fully worked and several other examples, and 1,000+ illustrations, including photos of real devices Addresses applications ranging from solar energy concentration to illumination engineering Introduction to Nonimaging Optics, Second Edition invites newcomers to explore the growing field of nonimaging optics, while providing seasoned veterans with an extensive reference book. "A textbook which thoroughly introduces the density matrix formalism and applies it to a range of topics of current interest constitutes a 'missing link' among quantum optics textbooks."-Christoph Becher, Saarland

University, Germany -- The book presents the principles and methods of holographic interferometry - a coherent-optical measurement technique for deformation and stress analysis, for the determination of refractive-index distributions, or applied to non-destructive testing. Emphasis of the book is on the quantitative computer-aided evaluation of the holographic interferograms. Based upon wave-optics the evaluation methods, their implementation in computer-algorithms, and their applications in engineering are described. An expert guide to the new and emerging field of broadband circuits for optical fiber communication This exciting publication makes it easy for readers to enter into and deepen their knowledge of the new and emerging field of broadband circuits for optical fiber communication. The author's selection and organization of material have been developed, tested, and refined from his many industry courses and seminars. Five types of broadband circuits are discussed in detail: * Transimpedance amplifiers * Limiting amplifiers * Automatic gain control (AGC) amplifiers * Lasers drivers * Modulator drivers Essential background on optical fiber, photodetectors, lasers, modulators, and receiver theory is presented to help readers understand the system environment in which these broadband circuits operate. For each circuit type, the main specifications and their impact on system performance are explained and illustrated with numerical values. Next, the circuit concepts are discussed and illustrated with practical implementations. A broad range of circuits in MESFET, HFET, BJT, HBT, BiCMOS, and CMOS technologies is covered. Emphasis is on circuits for digital, continuous-mode transmission in the 2.5 to 40 Gb/s range, typically used in SONET, SDH, and Gigabit Ethernet applications. Burst-mode circuits for passive optical networks (PON) and analog circuits for hybrid fiber-coax (HFC) cable-TV applications also are discussed. Learning aids are provided throughout the text to help readers grasp and apply difficult concepts and techniques, including: * Chapter summaries that highlight the key points * Problem-and-answer sections to help readers apply their new knowledge * Research directions that point to exciting new technological breakthroughs on the horizon * Product examples that show the performance of actual broadband circuits * Appendices that cover eye diagrams, differential circuits, S parameters, transistors, and technologies * A bibliography that leads readers to more complete and in-depth treatment of specialized topics This is a superior learning tool for upper-level undergraduates and graduate-level students in circuit design and optical fiber communication. Unlike other texts that concentrate on analog circuits in general or mostly on optics, this text provides balanced coverage of electronic, optic, and system issues. Professionals in the fiber optic industry will find it an excellent reference, incorporating the latest technology and discoveries in the industry. This invaluable second edition provides more in-depth discussions and examples in various chapters. Based largely on the authors' own in-class lectures as well as research in the area, the comprehensive textbook serves two purposes. The first introduces some traditional topics such as matrix formalism of geometrical optics, wave propagation and diffraction, and some fundamental background on Fourier optics. The second presents the essentials of acousto-optics and electro-optics, and provides the students with experience in modeling the theory and applications using a commonly used software tool MATLAB®. Request Inspection Copy This book tells you all you want to know about optical fibers: Their structure, their light-guiding mechanism, their material and manufacture, their use. It began with telephone, then came telefax and email. Today we use search engines, music downloads and internet videos, all of which require shuffling of bits and bytes by the zillions. The key to all this is the conduit: the line which is designed to carry massive amounts of data at breakneck speed. In their data carrying capacity optical fiber lines beat all other technologies (copper cable, microwave beacons, satellite links) hands down, at least in the long haul; wireless devices rely on fibers, too. Several effects tend to degrade the signal as it travels down the fiber: they are spelled out in detail. Nonlinear processes are given due

consideration for a twofold reason: On the one hand they are fundamentally different from the more familiar processes in electrical cable. On the other hand, they form the basis of particularly interesting and innovative applications, provided they are understood well enough. A case in point is the use of so-called solitons, i.e. special pulses of light which have the wonderful property of being able to heal after perturbation. The book will take you from the physical basics of ray and beam optics, explain fiber structure and the functions of optical elements, and bring you to the forefront of both applications and research. The state of the art of high speed data transmission is described, and the use of fiber optic sensors in metrology is treated. The book is written in a pedagogical style so that students of both physics and electrical engineering, as well as technicians and engineers involved in optical technologies, will benefit. The new edition is largely updated and has new sections on nonlinear phenomena in fibers as well as on the latest trends in applications. A groundbreaking text and reference book on twenty-first-century classical physics and its applications This first-year graduate-level text and reference book covers the fundamental concepts and twenty-first-century applications of six major areas of classical physics that every masters- or PhD-level physicist should be exposed to, but often isn't: statistical physics, optics (waves of all sorts), elastodynamics, fluid mechanics, plasma physics, and special and general relativity and cosmology. Growing out of a full-year course that the eminent researchers Kip Thorne and Roger Blandford taught at Caltech for almost three decades, this book is designed to broaden the training of physicists. Its six main topical sections are also designed so they can be used in separate courses, and the book provides an invaluable reference for researchers. Presents all the major fields of classical physics except three prerequisites: classical mechanics, electromagnetism, and elementary thermodynamics Elucidates the interconnections between diverse fields and explains their shared concepts and tools Focuses on fundamental concepts and modern, real-world applications Takes applications from fundamental, experimental, and applied physics; astrophysics and cosmology; geophysics, oceanography, and meteorology; biophysics and chemical physics; engineering and optical science and technology; and information science and technology Emphasizes the quantum roots of classical physics and how to use quantum techniques to elucidate classical concepts or simplify classical calculations Features hundreds of color figures, some five hundred exercises, extensive cross-references, and a detailed index An online illustration package is available This applications-oriented book covers a variety of interrelated topics under the study of optics. For physics and engineering, it covers lasers and fiber optics, emphasizing applications to the optics of vision. For optometry, it discusses the optics of the eye, geometrical optics, interference, diffraction, and polarization. **KEY TOPICS:** Emphasizing the optics of vision, the book presents a vital and interesting applications of optical principles. It also includes several specialized sections on vision: a history of vision and spectacles; the use of vergences to handle refraction of the eye; the use of vergence to handle errors in refraction of the eye; optics of cylindrical lenses and application to astigmatism; aberrations in vision; structures and optical models of the eye; and the use of lasers in therapy for ocular defects. **MARKET:** A valuable reference on optics for professional optometrists, physicists, and engineers. A concise introduction to lens design, including the fundamental theory, concepts, methods and tools used in the field. Covering all the essential concepts and providing suggestions for further reading at the end of each chapter, this book is an essential resource for graduate students working in optics and photonics. The following is a text taught to engineering and applied science students at the NYU Tandon (Polytechnic) School of Engineering in 2017 and 2018. The course met for four hours a week during one fourteen week semester. Unlike other texts in Modern Optics this text is intended to be used by students in both engineering and applied science at a junior or senior level, and to support specialized interdisciplinary applied optics courses given at a graduate level, such as

Bio-Optics. By introducing it in the junior year students with interest arrive fresh from their introductory physics courses. The course emphasizes fundamentals starting with Maxwell's equations, which is where the introductory physics sequence ends, and applies these fundamentals to current interests in applied science and technology. Appropriate to the level of the course, the mathematics represents Maxwell's Equations in their integral form. Where advanced math was added (e.g. Fourier Transform), the students were introduced to this as if taught in an applied math course. Take-home Experiments: There are also take-home laboratory experiment assignments dispersed within the text, and requiring a small inventory of parts (e.g. transmission diffraction grating, red laser pointer, aspheric lens, 1" diameter acrylic sphere, and dye solution). With these parts and common things found around a typical home, 9 experiments are assigned to support the concepts taught in the course. One of these involves turning a Smart phone into a microscope. Another turns a Smart phone into a spectrometer, and a third uses the phone as a photometer. Applications: Some of the many applications discussed are Optical Tweezers, Holographic Diffraction Grating, Demystifying the structure of DNA from Rosalind Franklin's X-ray diffraction image (Photo 51), Fourier Transform Infrared Spectroscopy (FTIR), nano-plasmonics, Fabry-Perot resonator, Whispering Gallery Mode sensor, LASER, Confocal microscope, and Super high-resolution microscopy (STED). Introduction to Optics is now available in a re-issued edition from Cambridge University Press. Designed to offer a comprehensive and engaging introduction to intermediate and upper level undergraduate physics and engineering students, this text also allows instructors to select specialized content to suit individual curricular needs and goals. Specific features of the text, in terms of coverage beyond traditional areas, include extensive use of matrices in dealing with ray tracing, polarization, and multiple thin-film interference; three chapters devoted to lasers; a separate chapter on the optics of the eye; and individual chapters on holography, coherence, fiber optics, interferometry, Fourier optics, nonlinear optics, and Fresnel equations. The Second Edition of this successful textbook provides a clear, well-written introduction to both the fundamental principles of optics and the key aspects of photonics to show how the subject has developed in the last few decades, leading to many modern applications. Optics and Photonics: An Introduction, Second Edition thus provides a complete undergraduate course on optics in a single integrated text, and is an essential resource for all undergraduate physics, science and engineering students taking a variety of optics based courses. Specific changes for this edition include: New material on modern optics and photonics Rearrangement of chapters to give a logical progression, comprising groups of chapters on geometric optics, wave optics and photonics Many more worked examples and problems Substantial revisions to chapters on Holography, Lasers and the Interaction of Light with Matter Solutions can be found at: www.booksupport.wiley.com The 60th anniversary edition of this classic and unrivalled optics reference work includes a special foreword by Sir Peter Knight. The book describes classical (non-quantum) optical phenomena and the instruments and technology based on them. It includes many cutting-edge areas of modern physics and its applications which are not covered in many larger and more expensive books. A basic optics textbook that integrates relevant visual and ophthalmic optics material with basic geometric and physical optics. Dr. Keating's book uses the vergence approach to optics as well as the wavefront approach to vergence as an aid to developing optics intuition.

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