

## Goodman Statistical Optics Solutions

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basic optics principles and concepts addresses in great detail the basic principles of the science of optics and their related concepts the book provides a lucid and coherent presentation of an extensive range of concepts from the field of optics which is of central relevance to several broad areas of science including physics chemistry and biology with its extensive range of discourse the book s content arms scientists and students with knowledge of the essential concepts of classical and modern optics it can be used as a reference book and also as a supplementary text by students at college and university levels and will at the same time be of considerable use to researchers and teachers the book is composed of nine chapters and includes a great deal of material not covered in many of the more well known textbooks on the subject the science of optics has undergone major changes in the last fifty years because of developments in the areas of the optics of metamaterials fourier optics statistical optics quantum optics and nonlinear optics all of which find their place in this book with a clear presentation of their basic principles even the more traditional areas of ray optics and wave optics are elaborated within the framework of electromagnetic theory at a level more fundamental than what one finds in many of the currently available textbooks thus the eikonal approximation leading to ray optics the lagrangian and hamiltonian formulations of ray optics the quantum theoretic interpretation of interference the vector and dyadic diffraction theories the geometrical theory of diffraction and similar other topics of basic relevance are presented in clear terms the presentation is lucid and elegant capturing the essential magic and charm of physics all this taken together makes the book a unique text of major contemporary relevance in the field of optics avijit lahiri is a well known researcher teacher and author with publications in several areas of physics and with a broad range of current interests including physics and the philosophy of science provides extensive and thoroughly exhaustive coverage of classical and modern optics offers a lucid presentation in understandable language rendering the abstract and difficult concepts of physics in an easy accessible way develops all concepts from elementary levels to advanced stages includes a sequential description of all needed mathematical tools relates fundamental concepts to areas of current research

interest

this book discusses statistical methods that are useful for treating problems in modern optics and the application of these methods to solving a variety of such problems this book covers a variety of statistical problems in optics including both theory and applications the text covers the necessary background in statistics statistical properties of light waves of various types the theory of partial coherence and its applications imaging with partially coherent light atmospheric degradations of images and noise limitations in the detection of light new topics have been introduced in the second edition including analysis of the vander pol oscillator model of laser light coverage on coherence tomography and coherence multiplexing of fiber sensors an expansion of the chapter on imaging with partially coherent light including several new examples an expanded section on speckle and its properties new sections on the cross spectrum and bispectrum techniques for obtaining images free from atmospheric distortions a new section on imaging through atmospheric turbulence using coherent light the addition of the effects of read noise to the discussions of limitations encountered in detecting very weak optical signals a number of new problems and many new references have been added statistical optics second edition is written for researchers and engineering students interested in optics physicists and chemists as well as graduate level courses in a university engineering or physics department

this new edition incorporates corrections of all known typographical errors in the first edition as well as some more substantive changes chief among the latter is the addition of chap 17 on methods of estimation as with the rest of the text most applications and examples cited in the new chapter are from the optical perspective the intention behind this new chapter is to empower the optical researcher with a yet broader range of research tools certainly a basic knowledge of estimation methods should be among these in particular the sections on likelihood theory and fisher information prepare readers for the problems of optical parameter estimation and probability law estimation physicists and optical scientists might find this material particularly useful since the subject of fisher information is generally not covered in standard physical science curricula since the words statistical optics are prominent in the title of this book their meaning needs to be clarified there is a general tendency to overly emphasize the statistics of photons as the sine qua non of statistical optics in view is taken which equally emphasizes the random medium this text a wider that surrounds the photon be it a photographic emulsion the turbulent atmo sphere a vibrating lens holder etc also included are random interpretations of ostensibly deterministic phenomena such as the hurter driffield h and d curve of photography such a random interpretation sometimes breaks new ground as in chap

each of the 4 reviews provides an introduction to the techniques involved their theoretical and mathematical bases and specific examples of their most significant applications in food research for characterizing the structural and physical properties of specific food components and their interactive behavior the text is replete with a wide assortment of graphs spectra and mathematical relationships the reviews are organized to serve as an authoritative reference primer for the food researcher

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