

Introduction Fourier Optics Goodman

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this textbook deals with fourier analysis applications in optics and in particular with its applications to diffraction imaging optical data processing holography and optical communications fourier analysis is a universal tool that has found application within a wide range of areas in physics and engineering and this third edition has been written to help your students understand the complexity of a subject that can be challenging to grasp at times chapters cover foundations of scalar diffraction theory fresnel and fraunhofer diffraction moving onto wave optics analysis of coherent optical systems and wavefront modulation joseph goodman s work in electrical engineering has been recognised by a variety of awards and honours so his text is able to guide students through a comprehensive introduction into fourier optics

fourier analysis is a ubiquitous tool that has found application to diverse areas of physics and engineering goodman focuses on applications in optics and in particular with applications to diffraction imaging optical information processing holography and optical communications goodman introduction to fourier optics satisfies the needs of several different types of physics and engineering courses directed towards both physicists and engineers this text is suitable for audiences focusing on applications of optics a clear presentation makes this text work well as both a teaching resource and a reference book

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

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

the book is designed to serve as a textbook for advanced undergraduate and graduate students enrolled in physics and electronics and communication engineering and mathematics the book provides an introduction to fourier optics in light of new developments in the area of computational imaging over the last couple of decades there is an in depth discussion of mathematical methods such as fourier analysis linear systems theory random processes and optimization based image reconstruction techniques these techniques are very much essential for a better understanding of the working of computational imaging systems it discusses topics in fourier optics e g diffraction phenomena coherent and incoherent imaging systems and some aspects of coherence theory these concepts are then used to describe several system ideas that combine optical hardware design and image reconstruction algorithms such as digital holography iterative phase retrieval super resolution imaging point spread function engineering for enhanced depth of focus projection based imaging single pixel or ghost imaging etc the topics covered in this book can provide an elementary introduction to the exciting area of computational imaging for students who may wish to work with imaging systems in their future careers

appropriate for advanced undergraduate and graduate students this text covers fraunhofer diffraction fourier series and periodic

structures fourier transforms optical imaging and processing image reconstruction and more solutions 1989 edition

image processing for cinema presents a detailed overview of image processing techniques that are used in practice in digital cinema the book shows how image processing has become ubiquitous in movie making from shooting to exhibition it covers all the ways in which image processing algorithms are used to enhance restore adapt and convert movi

a clear and straightforward introduction to the fourier principles behind modern optics this text is appropriate for advanced undergraduate and graduate students page 4 of cover

there is no dearth of books on telescope optics and indeed optics is clearly a key element in the design and construction of telescopes but it is by no means the only important element as telescopes become larger and more costly other aspects such as structures pointing wavefront control enclosures and project management become just as critical although most of the technical knowledge required for all these elds is available in various specialized books journal articles and technical reports they are not necessarily written with application to telescopes in mind this book is a first attempt at assembling in a single text the basic astronomical and engineering principles used in the design and construction of large telescopes it aims to broadly cover all major aspects of the eld from the fundamentals of astronomical observation to optics control systems structural mechanical and thermal engineering as well as specialized topics such as site selection and program management this subject is so vast that an in depth treatment is obviously impractical our intent is therefore only to provide a comprehensive introduction to the essential aspects of telescope design and construction this book will not replace specialized scientific and technical texts but we hope that it will be useful for astronomers managers and systems engineers who seek a basic understanding of the underlying principles of telescope making and for specialists who wish to acquaint themselves with the fundamental requirements and approaches of their colleagues in other disciplines

this book covers various aspects of modern microscopy with emphasis on multidimensional three dimensional and higher and multimodality microscopy the topics discussed include multiphoton fluorescent microscopy confocal microscopy x ray microscopy and microtomography electron microscopy probe microscopy and multidimensional image processing for microscopy in addition there are chapters demonstrating typical microscopical applications both biological and material

applications of optical fourier transforms is a 12 chapter text that discusses the significant achievements in fourier optics the opening chapters discuss the fourier transform property of a lens the theory and applications of complex spatial filters and their application to signal detection character recognition water pollution monitoring and other pattern recognition problems these topics are followed by a computation of the statistical characteristics of the fourier irradiance patterns and the hybrid systems that combine the best of optics analog electronics and digital computers to solve problems the subsequent chapters examine the pulse doppler and chirp signals the significance of signal to noise power spectrum in the information content measurement of photographic film and in image quality determinations this text also considers the application of nonlinear systems and their components to fourier optics the discussions then shift to the application of fourier methods to the study of spatial information transmission through the human visual system as well as the application of coherent techniques to vision research the concluding chapters deal with the well known pattern recognition problems related to the digital signal processing community these chapters also look into a general theoretical model of light field propagation from input to output this book will be of value to optical scientists and vision researchers

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