

Introduction Fourier Optics Goodman

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Fourier Optics and Computational Imaging
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3rd Iberoamerican Optics Meeting and 6th Latin American Meeting on Optics, Lasers,
and Their Applications
Optical Imaging and Aberrations: Wave diffraction optics
Fourier Series and Optical
Transform Techniques in Contemporary Optics
Scattering and Diffraction in Physical Optics
Joseph W. Goodman
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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 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

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

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

this book covers the applications of fourier methods and linear systems theory to optical diffraction and imaging and it will be of use to anyone seeking an understanding of fourier series and fourier transforms of one and two dimensional structures

beginning with the basic principles this book presents a tutorial and comprehensive treatment of the modern concepts of physical optics in connection with diffraction and scattering problems both graduate students and research scientists will benefit from this unified selection of up to date topics so far only available in course notes and research papers

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Introduction

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