

Linear Systems, Fourier Transforms, and Optics

Jack D. Gaskill

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Linear Systems, Fourier Transforms, and Optics Jack D. Gaskill, 1978-06-16 A complete and balanced account of communication theory providing an understanding of both Fourier analysis and the concepts associated with linear systems and the characterization of such systems by mathematical operators Presents applications of the theories to the diffraction of optical wave fields and the analysis of image forming systems Emphasizes a strong mathematical foundation and includes an in depth consideration of the phenomena of diffraction Combines all theories to describe the image forming process in terms of a linear filtering operation for both coherent and incoherent imaging Chapters provide carefully designed sets of problems Also includes extensive tables of properties and pairs of Fourier transforms and Hankle Transforms *Field Guide to Linear Systems in Optics* J. Scott Tyo, Andrey S.. Alenin, 2015-01-21 Linear systems is a broad and important area in many scientific and engineering disciplines and it is especially important in optics because it forms the basis for Fourier optics diffraction theory image quality assessment and many other areas This Field Guide provides the practicing optical engineer with a reference for the basic concepts and techniques of linear systems including Fourier series continuous and discrete Fourier transforms convolution sampling and aliasing and MTF PSF using the language notation and applications from optics imaging and diffraction Fourier Transforms in Spectroscopy Jyrki Kauppinen, Jari Partanen, 2011-02-10 This modern approach to the subject is clearly and logically structured and gives readers an understanding of the essence of Fourier transforms and their applications All important aspects are included with respect to their use with optical spectroscopic data Based on popular lectures the authors provide the mathematical fundamentals and numerical applications which are essential in practical use The main part of the book is dedicated to applications of FT in signal processing and spectroscopy with IR and NIR NMR and mass spectrometry dealt with both from a theoretical and practical point of view Some aspects linear prediction for example are explained here thoroughly for the first time **Application of Optical Fourier Transforms** Henry Stark, 2012-12-02 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 Performance Analysis of Standard Fourier-Transform Spectrometers. , **Fourier Transforms in NMR, Optical, and Mass Spectrometry** A.G. Marshall,F.R. Verdun,2016-02-25 Written by spectroscopists for spectroscopists here is a book which is not only a valuable handbook and reference work but also an ideal teaching text for Fourier transform methods as they are applied in spectroscopy It offers the first unified treatment of the three most popular types of FT spectroscopy with uniform notation and complete indexing of specialized terms All mathematics is self contained and requires only a knowledge of simple calculus The main emphasis is on pictures and physical analogs rather than detailed algebra Instructive problems presented at the end of each chapter offer extensions of the basic treatment Solutions are given or outlined for all problems The book offers a wealth of practical information to spectroscopists Non ideal effects are treated in detail noise source and detector limited non linear response limits to spectrometer performance based on finite detection period finite data size mis phasing etc Common puzzles and paradoxes are explained e g use of mathematically complex variables to represent physically real quantities interpretation of negative frequency signals on resonance vs off resonance response interpolation when it helps and when it doesn t ultimate accuracy of the data differences between linearly and circularly polarized radiation multiplex advantage or disadvantage etc Chapter 1 introduces the fundamental line shapes encountered in spectroscopy from a simple classical mass on a spring model The Fourier transform relationship between the time domain response to a sudden impulse and the steady state frequency domain response absorption and dispersion spectra to a continuous oscillation is established and illustrated Chapters 2 and 3 summarize the basic mathematics definitions formulas theorems and examples for continuous analog and discrete digital Fourier transforms and their practical implications Experimental aspects which are common to the signal Chapter 4 and noise Chapter 5 in all forms of Fourier transform spectrometry are followed by separate chapters for treatment of those features which are unique to FT MS FT optical FT NMR and other types of FT spectroscopy The list of references includes both historical and comprehensive reviews and monographs along with articles describing several key developments The appendices provide instant access to FT integrals and fast algorithms as well as a pictorial library of common Fourier transform function pairs The comprehensive index is designed to enable the reader to locate particular key words including those with more than one name

Introduction to Infrared and Electro-optical Systems Ronald G. Driggers,Melvin H. Friedman,Jonathan Nichols,2012 This comprehensive reference details the principles and components of the Linear Shift Invariant LSI infrared and electro optical systems and shows you how to combine this approach with calculus and domain transformations to achieve a successful imaging system analysis Ultimately the steps described in this book lead to results in quantitative characterizations of performance metrics such as modulation transfer functions minimum resolvable temperature difference minimum resolvable

contrast and probability of object discrimination The book includes an introduction to two dimensional functions and mathematics which can be used to describe image transfer characteristics and imaging system components You also learn diffraction concepts of coherent and incoherent imaging systems which show you the fundamental limits of their performance By using the evaluation procedures contained in this desktop reference you become capable of predicting both sensor test and field performance and quantifying the effects of component variations

Introduction to Infrared and Electro-Optical Systems, Third Edition Ronald G. Driggers, Melvin H. Friedman, John W. Devitt, Orges Furxhi, Anjali Singh, 2022-08-31 This newly revised and updated edition offers a current and complete introduction to the analysis and design of Electro Optical EO imaging systems The Third Edition provides numerous updates and several new chapters including those covering Pilotage Infrared Search and Track and Simplified Target Acquisition Model The principles and components of the Linear Shift Invariant LSI infrared and electro optical systems are detailed in full and help you to combine this approach with calculus and domain transformations to achieve a successful imaging system analysis Ultimately the steps described in this book lead to results in quantitative characterizations of performance metrics such as modulation transfer functions minimum resolvable temperature difference minimum resolvable contrast and probability of object discrimination The book includes an introduction to two dimensional functions and mathematics which can be used to describe image transfer characteristics and imaging system components You also learn diffraction concepts of coherent and incoherent imaging systems which show you the fundamental limits of their performance By using the evaluation procedures contained in this desktop reference you become capable of predicting both sensor test and field performance and quantifying the effects of component variations The book contains over 800 time saving equations and includes numerous analyses and designs throughout It also includes a reference link to special website prepared by the authors that augments the book in the classroom and serves as an additional resource for practicing engineers With its comprehensive coverage and practical approach this is a strong resource for engineers needing a bench reference for sensor and basic scenario performance calculations Numerous analyses and designs are given throughout the text It is also an excellent text for upper level students with an interest in electronic imaging systems

The Ray and Wave Theory of Lenses A. Walther, Adriaan Walther, 2006-11-02 Calculations on lens systems are often marred by the unjustifiable use of the small angle approximation This book describes in detail how the ray and wave pictures of lens behaviour can be combined and developed into a theory capable of dealing with the large angles encountered in real optical systems A distinct advantage of this approach is that Fourier optics appears naturally in a form valid for arbitrarily large angles The book begins with extensive reviews of geometrical optics eikonal functions and the theory of wave propagation The propagation of waves through lenses is then treated by exploiting the close connection between eikonal function theory and the stationary phase approximation Aberrations are then discussed and the book concludes with various applications in lens design and analysis including

chapters on laser beam propagation and diffractive optical elements Throughout special emphasis is placed on the intrinsic limitations of lens performance The many practical insights it contains as well as the exercises with their solutions will be of interest to graduate students as well as to anyone working in optical design and engineering

Analysis of Sampled Imaging Systems Richard H. Vollmerhausen, Ronald G. Driggers, 2000 Advances in solid state detector arrays flat panel displays and digital image processing have prompted an increasing variety of sampled imaging products and possibilities These technology developments provide new opportunities and problems for the design engineer and system analyst this tutorial s intended reader

Introduction to Aberrations in Optical Imaging Systems José Sasián, 2013 An accessible well presented introduction to the theory of optical aberrations covering key topics that are often missing from comparable books

Techniques for Image Processing and Classifications in Remote Sensing Robert A. Schowengerdt, 2012-12-02 Techniques for Image Processing and Classifications in Remote Sensing provides an introduction to the fundamentals of computer image processing and classification commonly called pattern recognition in other applications The book begins with a discussion of digital scanners and imagery and two key mathematical concepts for image processing and classification spatial filtering and statistical pattern recognition This is followed by separate chapters on image processing and classification techniques that are widely used in the remote sensing community The emphasis throughout is on techniques that assist in the analysis of images not particular applications of these techniques The book also has four appendixes featuring a bibliography an introduction to computer binary data representation and image data formats a discussion of interactive image processing and a selection of exam questions from the Image Processing Laboratory course at the University of Arizona This book is intended for use as either a primary source in an introductory image processing course or as a supplementary text in an intermediate level remote sensing course The academic level addressed is upper division undergraduate or beginning graduate and familiarity with calculus and basic vector and matrix concepts is assumed

The Observation and Analysis of Stellar Photospheres David F. Gray, 2005-11-17 The Observation and Analysis of Stellar Photospheres describes the equipment observational techniques and analysis used in the investigation of stellar photospheres This third edition builds on the success of the previous editions improving the presentation and revising topics and results to keep up to date with the latest research The first half of the book develops the tools of analysis and the second half demonstrates how they can be applied Topics covered include radiation transfer models of stellar photospheres spectroscopic equipment observing stellar spectra and techniques for measuring stellar characteristics Useful real star data can be found throughout the text and in the appendices and there are extensive references to the primary literature This comprehensive textbook is suitable for advanced undergraduates and graduate students of stellar physics Each chapter contains exercises to test understanding and a wealth of useful reference material is included

Superresolution Optical Microscopy Barry R. Masters, 2020-03-21 This book presents a comprehensive and coherent summary of techniques for

enhancing the resolution and image contrast provided by far field optical microscopes It takes a critical look at the body of knowledge that comprises optical microscopy compares and contrasts the various instruments provides a clear discussion of the physical principles that underpin these techniques and describes advances in science and medicine for which superresolution microscopes are required and are making major contributions The text fills significant gaps that exist in other works on superresolution imaging firstly by placing a new emphasis on the specimen a critical component of the microscope setup giving equal importance to the enhancement of both resolution and contrast Secondly it covers several topics not typically discussed in depth such as Bessel and Airy beams the physics of the spiral phase plate vortex beams and singular optics photoactivated localization microscopy PALM stochastic optical reconstruction microscopy STORM structured illumination microscopy SIM and light sheet fluorescence microscopy LSM Several variants of these techniques are critically discussed Noise optical aberrations specimen damage and artifacts in microscopy are also covered The importance of validation of superresolution images with electron microscopy is stressed Additionally the book includes translations and discussion of seminal papers by Abbe and Helmholtz that proved to be pedagogically relevant as well as historically significant This book is written for students researchers and engineers in the life sciences medicine biological engineering and materials science who plan to work with or already are working with superresolution light microscopes The volume can serve as a reference for these areas while a selected set of individual chapters can be used as a textbook for a one semester undergraduate or first year graduate course on superresolution microscopy Moreover the text provides a captivating account of curiosity skepticism risk taking innovation and creativity in science and technology Good scientific practice is emphasized throughout and the author's lecture slides on responsible conduct of research are included as an online resource which will be of interest to students course instructors and scientists alike

Advancement of Optical Methods in Experimental Mechanics, Volume 3 Sanichiro Yoshida, Luciano Lamberti, Cesar Sciammarella, 2016-08-07 Advancement of Optical Methods in Experimental Mechanics Volume 3 of the Proceedings of the 2016 SEM Annual Conference Exposition on Experimental and Applied Mechanics the third volume of ten from the Conference brings together contributions to this important area of research and engineering The collection presents early findings and case studies on a wide range of optical methods ranging from traditional photoelasticity and interferometry to more recent DIC and DVC techniques and includes papers in the following general technical research areas Advances in Digital Image Correlation Challenging Applications of DIC Uncertainty Analysis Improvements to DIC Accuracy Photoelasticity Interferometry Moire Methods Applications of Stereovision Inverse Methods at High Strain Rates Inverse Methods in Plasticity

Optical Methods of Measurement Rajpal Sirohi, 1999-05-28 Provides an examination of up to date optical measurement techniques employing laser holographic and digital technology The text analyzes the most advanced non invasive methods for measuring stationary or mobile objects and surfaces It provides information on practical and theoretical issues of reproducing extremely fine spatial resolution in two

and three dimensions Encyclopedia of Optical Engineering: Las-Pho, pages 1025-2048 Ronald G. Driggers, 2003 Compiled by 330 of the most widely respected names in the electro optical sciences the Encyclopedia is destined to serve as the premiere guide in the field with nearly 2000 figures 560 photographs 260 tables and 3800 equations From astronomy to x ray optics this reference contains more than 230 vivid entries examining the most intriguing technological advances and perspectives from distinguished professionals around the globe The contributors have selected topics of utmost importance in areas including digital image enhancement biological modeling biomedical spectroscopy and ocean optics providing thorough coverage of recent applications in this continually expanding field *Introduction to Infrared System Design* William L. Wolfe, 1996 This tutorial text focuses on the optics and detector aspects of infrared system design It introduces the terminology processes and instrument design techniques available Design examples are based on real problems investigated by the author **Photonic Networks, Components And Applications - Proceedings Of The Montebello Workshop** J Terry, Jacek Chrostowski, 1991-03-07 This Workshop gathered engineers and scientists to discuss their recent research and issues related to photonic networks and their topologies the enabling devices and applications these networks support Optical communication neural sensor and computer networks were considered Another part of the workshop was devoted to network components based on optical fibre semiconductor and organic materials such as lasers amplifiers and detectors integrated optic and optoelectronic circuits Applications in communications optical sensing and signal processing were addressed with particular emphasis on avionics submarine space as well as office residential medical and specialized captive services Fundamentals of Ultrasonic Nondestructive Evaluation Lester W. Schmerr Jr., 2016-04-30 This extensively revised and updated second edition of a widely read classic presents the use of ultrasound in nondestructive evaluation NDE inspections Retaining the first edition's use of wave propagation scattering theory and linear system theory this volume also adds significant new material including the introduction of MATLAB functions and scripts that evaluate key results involving beam propagation and scattering flaw sizing and the modeling of ultrasonic systems elements of Gaussian beam theory and a multi Gaussian ultrasonic beam model for bulk wave transducers a new chapter on the connection between ultrasonic modeling and probability of detection POD and reliability models new and improved derivations of ultrasonic measurement models updated coverage of ultrasonic simulators that have been developed around the world Students engineers and researchers working in the ultrasonic NDE field will find a wealth of information on the modeling of ultrasonic inspections and the fundamental ultrasonic experiments that support those models in this new edition

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