

Infrared Design Examples



William L. Wolfe

**Tutorial Texts in Optical Engineering
Volume TT36**

Infrared Design Examples Spie Tutorial Texts In Optical Engineering Vol Tt36

M Walker



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Infrared Design Examples William L. Wolfe, 1999 This tutorial covers infrared design examples in considerable detail building on principles presented in an earlier text *Introduction to Infrared System Design* SPIE PRESS Vol TT24 The text explores a range of problems illustrating several design issues with applications in military industry aeronautics space and medicine among others

Introduction to Image Stabilization Scott W. Teare, Sergio R. Restaino, 2006 The use of image stabilization has grown to the point that it is now a common component of modern optical systems for imaging communications and remote sensing applications The benefits of image stabilization to astronomical research alone are so rich that it is common for astronomical telescopes built over the last century to be retrofitted with fast steering mirrors and tip tilt sensors to extend their useful lifetimes This text provides the basics of image stabilization starting with a consideration of the cause of image blurring and an introduction to the components commonly used in constructing a stabilized imaging system With this foundation an example image stabilized system is described and used to introduce some of the important parameters in evaluating the performance of image stabilization systems As image stabilization systems are key components of adaptive optics systems the more sophisticated sensing and correction devices used in this area are briefly addressed Rather than being a mathematical rigorous treatment of image stabilization it provides the basic ideas in an easy to read format

Optical Design Fundamentals for Infrared Systems Max J. Riedl, 2001 The practical popular 1995 tutorial has been thoroughly revised and updated reflecting developments in technology and applications during the past decade New chapters address wave aberrations thermal effects design examples and diamond turning

Optical Design for Visual Systems Bruce H. Walker, 2000 This tutorial explains the human eye its function and performance limits from the perspective of an experienced optical engineer and lens designer It is concise and readable with examples and data and is intended for students practicing engineers and technology users

Integrated Optomechanical Analysis Keith B. Doyle, Victor L. Genberg, Gregory J. Michels, 2002 This tutorial presents optomechanical modeling techniques to effectively design and analyze high performance optical systems It discusses thermal and structural modeling methods that use finite element analysis to predict the integrity and performance of optical elements and optical support structures Includes accompanying CD ROM with examples

Modulation Transfer Function in Optical and Electro-optical Systems Glenn D. Boreman, 2001 This tutorial introduces the theory and applications of MTF used to specify the image quality achieved by an imaging system It covers basic linear systems theory and the relationship between impulse response resolution MTF OTF PTF and CTF Practical measurement and testing issues are discussed

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 Hands-on Morphological Image Processing Edward R. Dougherty, Roberto A. Lotufo, 2003 Morphological image processing a standard part of the imaging scientist s toolbox can be applied to a wide range of industrial applications Concentrating on applications this text shows how to analyse the problems and then develop successful algorithms to solve them **Fundamentals of Infrared Detector Materials** Michael A. Kinch, 2007 The choice of available infrared IR detectors for insertion into modern IR systems is both large and confusing The purpose of this volume is to provide a technical database from which rational IR detector selection criteria evolve and thus clarify the options open to the modern IR system designer Emphasis concentrates mainly on high performance IR systems operating in a tactical environment although there also is discussion of both strategic environments and low to medium performance system requirements **Fourier Transform Spectroscopy Instrumentation Engineering** Vidi Saptari, 2004 Many applications today require the Fourier transform FT spectrometer to perform close to its limitations such as taking many quantitative measurements in the visible and in the near infrared wavelength regions In such cases the instrument should not be considered as a perfect black box Knowing where the limitations of performance arise and which components must be improved are crucial to obtaining repeatable and accurate results One of the objectives of this book is to help the user identify the instrument s bottleneck An Engineering Introduction to Biotechnology J. Patrick Fitch, 2002 This tutorial will help technical professionals in optics determine whether their technologies have potential application in the life sciences It also is useful as a prep class for more detailed books on biology and biotechnology filling the gap between fundamental and high level approaches Thermal Infrared Characterization of Ground Targets and Backgrounds Pieter A. Jacobs, 2006 This new edition updates the technologies that deal with the characterization of the thermal infrared radiation contrast between ground targets and backgrounds Samples have been updated to comply with the current status of technology in sensor systems and countermeasures New topics on mine detection and polarization have been included and the section covering multispectral camouflage of personnel has been extended The basic principles and meteorological parameters are presented followed by calibration procedures signature measurements and data analyses *Resolution Enhancement Techniques in Optical Lithography* Alfred Kwok-Kit Wong, 2001 Ever smaller IC devices are pushing the optical lithography envelope increasing the importance of resolution enhancement techniques This tutorial encompasses two decades of research It discusses theoretical and practical aspects of commonly used techniques including optical imaging and resolution modified illumination optical proximity correction alternating and attenuating phase shifting masks selecting RETs and second generation RETs Useful for students and practicing lithographers **Infrared Optics and Zoom Lenses** Allen Mann, 2000 This Tutorial Text is an outgrowth of the author s short course of the same title It is intended as an introduction to readers unfamiliar with infrared zoom lenses and as an aid to the practising engineer pursuing a related application The first three chapters introduce the principles of optics and the unique aspects of the infrared region of the wavelength spectrum with

related optical design techniques addressed in Chapter 4 Chapters 5 through 8 present material unique to the subject of zoom lenses in the infrared The appendix contains three landmark infrared zoom lens patents in their entirety providing lens prescription data and a starting point for future design activity in addition to the author s computer analysis of the three patents *Matrix Methods for Optical Layout* Gerhard Kloos,2007 This book is intended to familiarize the reader with the method of Gaussian matrices and some related tools of optical design The matrix method provides a means to study an optical system in the paraxial approximation This text contains new results such as theorems on the design of variable optics on integrating rods on the optical layout of prism devices etc The results are derived in a step by step way so that the reader might apply the methods presented here to resolve design problems with ease *Uncooled Thermal Imaging* Paul W. Kruse,2001 This introduction to uncooled infrared focal plane arrays and their applications is aimed at professionals students and end users Topics include principal uncooled thermal detection mechanisms fundamental performance limits and theoretical performance the state of the art and applications technical trends and systems employing uncooled arrays

Introduction to Confocal Fluorescence Microscopy Michiel Muller,2006 This book provides a comprehensive account of the theory of image formation in a confocal fluorescence microscope as well as a practical guideline to the operation of the instrument its limitations and the interpretation of confocal microscopy data The appendices provide a quick reference to optical theory microscopy related formulas and definitions and Fourier theory **Fundamentals of Contamination**

Control Alan C. Tribble,2000 This Tutorial Text provides a comprehensive introduction to the subject of contamination control with specific applications to the aerospace industry The author draws upon his many years as a practicing contamination control engineer researcher and teacher The book examines methods to quantify the cleanliness level required by various contamination sensitive surfaces and to predict the end of life contamination level for those surfaces and it identifies contamination control techniques required to ensure mission success *Optical Imaging in Projection*

Microlithography Alfred Kwok-Kit Wong,2005 Here for the first time is an integrated mathematical view of the physics and numerical modeling of optical projection lithography that efficiently covers the full spectrum of the important concepts Alfred Wong offers rigorous underpinning clarity in systematic formulation physical insight into emerging ideas as well as a system level view of the parameter tolerances required in manufacturing Readers with a good working knowledge of calculus can follow the step by step development and technologists can gather general concepts and the key equations that result Even the casual reader will gain a perspective on the key concepts which will likely help facilitate dialog among technologists

Logic-based Nonlinear Image Processing Stephen Marshall,2007 This text provides insight into the design of optimal image processing operators for implementation directly into digital hardware Starting with simple restoration examples and using the minimum of statistics the book provides a design strategy for a wide range of image processing applications The text is aimed principally at electronics engineers and computer scientists but will also be of interest to anyone working with

digital images

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