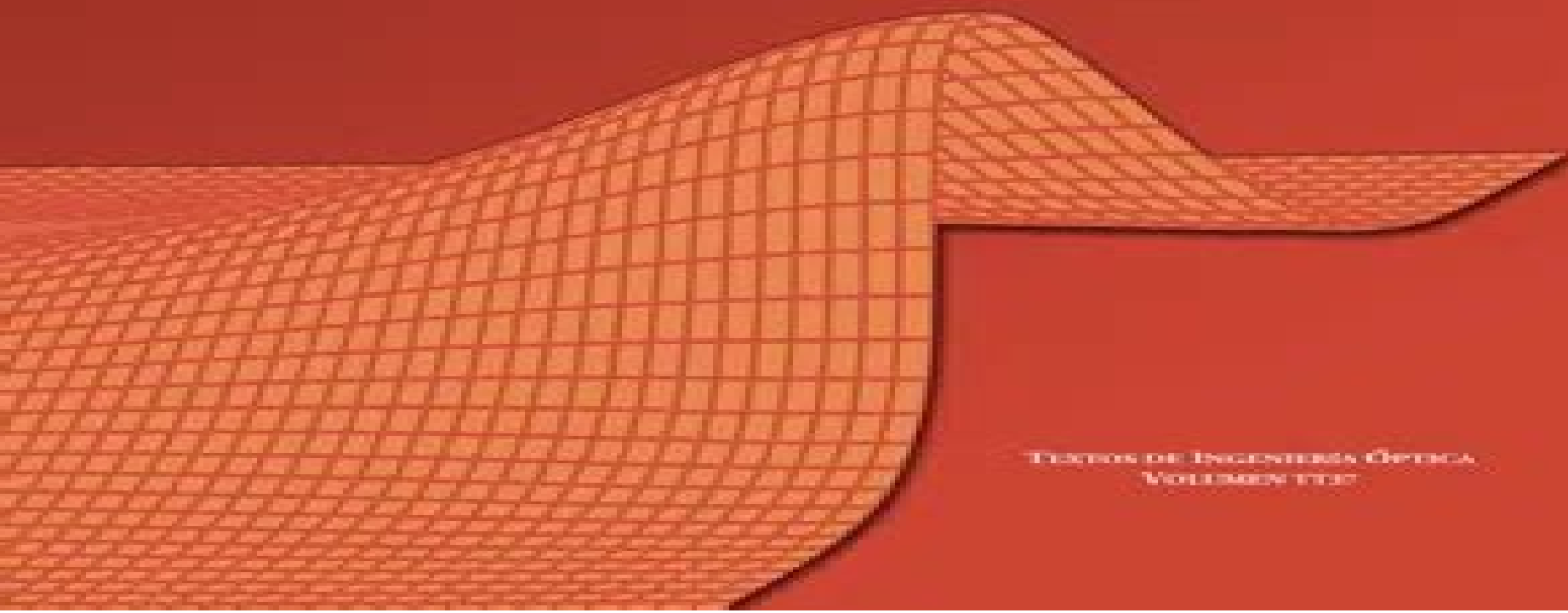


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Fundamentos de Electro- Óptica para Ingenieros

GLENN D. BOREMAN



TEXTOS DE INGENIERÍA ÓPTICA
VOLUMEN 1117

Fundamentos De Electro Optica Para Ingenieros

Donald C. O'Shea



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Fundamentos de electro-óptica para ingenieros Glenn D. Boreman,1999 El libro presenta conceptos basicos de ingenieria optica de una manera clara El material es accessible para cualquier persona con experiencia en ingenieria electrica

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

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

Metrics for High-quality Specular Surfaces Lionel R. Baker,2004 This book supplies the optical component and systems designer and quality assurance engineers and managers with the definitions measurement principles and standard metrics used to characterize high quality specular surfaces The author covers both the traditional visual methods as well as newer but not necessarily better computer aided techniques and describes the metrics adopted by the new ISO standards including the setting of form and finish tolerances Key issues of industry are raised to help stimulate research and development of new methods and standards that blend the best of the old and new approaches to surface assessment

The Power- and Energy-handling Capability of Optical Materials, Components, and Systems Roger M. Wood,2003 Annotation There is a maximum power and energy that you can put into or transmit through your optical system in many cases this maximum is well below the laser induced damage threshold This tutorial explains the factors and constraints that limit the power and energy handling capability of optical materials components and or systems Because the lasers coming off the production lines are much more stable efficient and controlled than in the past today s engineers often do not have the insight into the technology as was required of first generation laser engineers However important insights into the use and performance of the laser and optical systems can be lost unless we remind ourselves at periodic intervals of the problems our predecessors had to face

Artificial Neural Networks Kevin L. Priddy,Paul E. Keller,2005 This tutorial text provides the reader with an understanding of artificial neural networks ANNs and their application beginning with the biological systems which inspired them through the learning methods that have been developed and the data collection processes to the many ways ANNs are being used today The material is presented with a minimum of math although the mathematical details are included in the appendices for interested readers and with a maximum of hands on experience All specialized terms are included in a glossary The result is a highly readable text that will teach the engineer the guiding principles necessary to use and apply artificial neural networks

Diffraction Optics Donald C. O'Shea,2004 This book provides the reader with the broad range of materials that were discussed in a series of short courses presented at Georgia Tech on the design fabrication

and testing of diffractive optical elements DOEs Although there are not long derivations or detailed methods for specific engineering calculations the reader should be familiar and comfortable with basic computational techniques This text is not a cookbook for producing DOEs but it should provide readers with sufficient information to assess whether this technology would benefit their work and to understand the requirements for using the concepts and techniques presented by the authors

Image Performance in CRT Displays Kenneth Compton, 2003 Annotation This tutorial fully explains cathode ray tube CRT based displays in a single easy to understand narrative Detailed explanations and insights into performance properties and safety limits of the various glass melts follow a discussion of the fundamentals In addition other topics covered include the architectural differences between color and monochrome the cathode electron beam source as a failure mode for all CRTs types of cathodes available and their life expectancy Phosphors the metrics involved in defining a pixel and how distortions can influence the net results defining CRT compliance with the DICOM Grayscale Standard Display Function GSDF test patterns and how they provide information about display performance and video cards round out this informative work High-fidelity Medical Imaging Displays Aldo Badano, Michael J. Flynn, Jerzy Kanicki, 2004 This tutorial explains performance and quality considerations in medical imaging displays After defining performance requirements for high fidelity displays the book introduces the display technologies that are likely to be used in medical imaging workstations

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 **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 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 **Field Mathematics for Electromagnetics, Photonics, and**

Materials Science Bernard Maxum, 2005 The primary objective of this book is to offer a review of vector calculus needed for the physical sciences and engineering This review includes necessary excursions into tensor analysis intended as the reader's first exposure to tensors making aspects of tensors understandable at the undergraduate level **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 **The**

Physics and Engineering of Solid State Lasers Yehoshua Y. Kalisky, 2006 This text explains the mutual influences between the physical and dynamic processes in solids and their lasing properties It provides insight into the physics and engineering of solid state lasers by integrating information from several disciplines including solid state physics materials science photophysics and dynamic processes in solids The text discusses approaches to developing new laser materials and includes data tables of basic parameters that can be applied to laser design Novel materials and techniques used in recent developments are also covered **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

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 *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 **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 **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

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