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# Handbook of OPTICAL METROLOGY

## Principles and Applications

Edited by

**Toru Yoshizawa**



# Handbook Of Optical Metrology Principles And Applications Second Edition

**Toru Yoshizawa**



## **Handbook Of Optical Metrology Principles And Applications Second Edition:**

**Handbook of Optical Metrology** Toru Yoshizawa, 2017-07-28 Handbook of Optical Metrology Principles and Applications begins by discussing key principles and techniques before exploring practical applications of optical metrology. Designed to provide beginners with an introduction to optical metrology without sacrificing academic rigor, this comprehensive text covers fundamentals of light sources, lenses, prisms, and mirrors, as well as optoelectronic sensors, optical devices, and optomechanical elements. It addresses interferometry, holography, and speckle methods and applications. It explains Moiré metrology and the optical heterodyne measurement method. It delves into the specifics of diffraction, scattering, polarization, and near field optics. It considers applications for measuring length and size, displacement, straightness, and parallelism, flatness, and three-dimensional shapes. This new Second Edition is fully revised to reflect the latest developments. It also includes four new chapters: nearly 100 pages on optical coherence tomography for industrial applications, interference microscopy for surface structure analysis, noncontact dimensional and profile metrology by video measurement, and optical metrology in manufacturing technology.

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Daniel Malacara, Manuel Servín, Zacarias Malacara, 1998-07-21 Lays out the fundamentals of as well as computational methods for studying fringe patterns produced by optical testing interferometers providing beginners with the necessary background to enter this field and helping seasoned researchers to refine current analytical approaches Discusses classical and state of the art fringe analysis techniques with exceptional clarity Polarized Light, Revised and Expanded Dennis Goldstein, Dennis H. Goldstein, 2003-06-13 Polarized Light Second Edition explores polarized light its production and its use facilitating self study without prior knowledge of Maxwell's equations This comprehensive second edition includes more than 2500 thoroughly updated figures and equations for easier understanding and application across various industries It features new chapters on polarization by refraction and reflection polarization elements anisotropic materials Stokes polarimetry Mueller matrix polarimetry the mathematics of the Mueller matrix This edition also offers updated and expanded material on the derivation of the Fresnel equations with plots of the magnitude and phase of the reflection coefficients *Terahertz Spectroscopy* Susan L. Dexheimer, 2017-12-19 The development of new sources and methods in the terahertz spectral range has generated intense interest in terahertz spectroscopy and its application in an array of fields Presenting state of the art terahertz spectroscopic techniques *Terahertz Spectroscopy Principles and Applications* focuses on time domain methods based on femtosecond laser sources and important recent applications in physics materials science chemistry and biomedicine The first section of the book examines instrumentation and methods for terahertz spectroscopy It provides a comprehensive treatment of time domain terahertz spectroscopic measurements including methods for the generation and detection of terahertz radiation methods for determining optical constants from time domain measurements and the use of femtosecond time resolved techniques The last two sections explore a variety of applications of terahertz spectroscopy in physics materials science chemistry and biomedicine With chapters contributed by leading experts in academia industry and research this volume thoroughly discusses methods and applications setting it apart from other recent books in this emerging terahertz field *Smart CMOS Image Sensors and Applications* Jun Ohta, 2017-12-19 Because of their high noise immunity and low static power supply drain complementary metal oxide semiconductor CMOS devices produce less heat than other forms of logic and allow a high density of logic functions on a chip These beneficial characteristics have fueled the use of CMOS image sensors in consumer electronics robot vision biotechnology and medicine With the introduction of smart functions in CMOS image sensors even more versatile applications are now possible Exploring this popular technology *Smart CMOS Image Sensors and Applications* focuses on the smart functions implemented in CMOS image sensors as well as the applications of these sensors After discussing the history of smart CMOS image sensors the book describes the fundamental elements of CMOS image sensors It covers some optoelectronic device physics and introduces typical CMOS image sensor structures such as an active pixel sensor APS Subsequent chapters elucidate the functions and materials of smart CMOS image sensors and present examples of smart imaging The final chapter explores various applications of smart CMOS image

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