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# Handbook of OPTICAL METROLOGY

## Principles and Applications

Edited by

**Toru Yoshizawa**



# Handbook Of Optical Metrology Principles And Applications Second Edition

**R Bogdan**



## **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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edge as interferogram analysis no matter how insightful isn't going to stay relevant forever The second edition of Interferogram Analysis for Optical Testing is designed to meet the needs of all those involved or wanting to become involved in this area of advanced optical engineering For those new to the science it provides the necessary fundamentals including basic computational methods for studying fringe patterns For those with deeper experience it fills in the gaps and adds the information necessary to complete and update one's education Written by the most experienced researchers in optical testing this text discusses classical and innovative fringe analysis principles of Fourier theory digital image filtering phase detection algorithms and aspheric wavelength testing It also explains how to assess wavefront deformation by calculating slope and local average curvature 'Advances in Optics: Reviews', Vol. 4 Sergey Yurish, 2019-07-18 The fourth volume of this popular Book Series is devoted to optics lasers and optical sensors and written by 29 authors from academia and industry from 10 countries Brazil China France Germany Greece Israel Russia Serbia USA and Vietnam This book ensures that the readers will stay at the cutting edge of the field and get the right and effective start point and road map for the further researches and developments By this way they will be able to save more time for productive research activity and eliminate routine work

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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 sensors Several appendices supply a range of information on constants illuminance MOSFET characteristics and optical resolution This book provides a firm foundation in existing smart CMOS image sensor technology and applications preparing you for the next phase of smart CMOS image sensors     *Handbook of Optical Sensors* Jose Luis Santos,Faramarz Farahi,2014-10-29

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