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Many of the topics listed in the Certified Calibration Technician (CCT) Body of Knowledge are presented in this comprehensive book which serves as an excellent reference to prepare for the certification exam. This book provides an overview of metrology and calibration principles and practices geared towards intermediate and advanced users with a basic understanding of the subject matter. Examples and figures are used throughout the book to aid in practical application of the material along with a list of helpful acronyms and abbreviations, a glossary of terms, and a bibliography for easy reference. Preview a sample chapter from this book along with the full table of contents by clicking here. You will need Adobe Acrobat to view this pdf file.

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 Addresses interferometry, holography, and speckle methods and applications Explains Moiré metrology and the optical heterodyne measurement method Delves into the specifics of diffraction, scattering, polarization, and near-field optics 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.

Since the publication of the first edition, miniaturization and nanotechnology have become inextricably linked to traditional surface geometry and metrology. This interdependence of scales has had profound practical implications. Updated and expanded to reflect many new developments, Handbook of Surface and Nanometrology, Second Edition determines h

A comprehensive reference manual to the Certified Quality Technician Body of Knowledge and study guide for the CQT exam.

The Handbook of Surface and Nanometrology explains and challenges current concepts in nanotechnology. It covers in great detail surface metrology and nanometrology and more importantly the areas where they overlap, thereby providing a quantitative means of controlling and predicting processes and performance. Trends and mechanisms are explained with

Containing more than 300 equations and nearly 500 drawings, photographs, and micrographs, this reference surveys key areas such as optical measurements and in-line calibration methods. It describes cleanroom-based measurement technology used during the manufacture of silicon integrated circuits and covers model-based, critical dimension, overlay

The field of optical metrology offers a wealth of both practical and theoretical accomplishments, and can cite any number of academic papers recording such. However, while several books covering specific areas of optical metrology do exist, until the pages herein were researched, written, and compiled, the field lacked for a comprehensive handbook, one providing an overview of optical metrology that covers practical applications as well as fundamentals. Carefully designed to make information accessible to beginners without sacrificing academic rigor, the Handbook of Optical Metrology: Principles and Applications discusses fundamental principles and techniques before exploring practical applications. With contributions from veterans in the field, as well as from up-and-coming researchers, the Handbook offers 30 substantial and well-referenced chapters. In addition to the introductory matter, forward-thinking descriptions are included in every chapter that make this a valuable reference for all those involved with optical metrology.

This Springer Handbook of Metrology and Testing presents the principles of Metrology – the science of measurement – and the methods and techniques of Testing – determining the characteristics of a given product – as they apply to chemical and microstructural analysis, and to the measurement and testing of materials properties and performance, including modelling and simulation. The principal motivation for this Handbook stems from the increasing demands of technology for measurement results that can be used globally. Measurements within a local laboratory or manufacturing facility must be able to be reproduced accurately anywhere in the world. The book integrates knowledge from basic sciences and engineering disciplines, compiled by experts from internationally known metrology and testing institutions, and academe, as well as from industry, and conformity-assessment and accreditation bodies. The Commission of the European Union has expressed this as there is no science without measurements, no quality without testing, and no global markets without standards.

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