

Spectroscopic Ellipsometry and Reflectometry

A User's Guide

**Harland G. Tompkins
William A. McGahan**

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McGahan**



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Spectroscopic Ellipsometry and Reflectometry Harland G. Tompkins, William A. McGahan, 1999-03-18 While single wave ellipsometry has been around for years spectroscopic ellipsometry is fast becoming the method of choice for measuring the thickness and optical properties of thin films This book provides the first practical introduction to spectroscopic ellipsometry and the related techniques of reflectometry A guide for practitioners and researchers in a variety of disciplines it addresses a broad range of applications in physics chemistry electrical engineering and materials science *Spectroscopic Ellipsometry And Reflectometry User'S Guide* H.G. Tompkins, **Handbook of Ellipsometry** Harland Tompkins, Eugene A Irene, 2005-01-06 The Handbook of Ellipsometry is a critical foundation text on an increasingly critical subject Ellipsometry a measurement technique based on phase and amplitude changes in polarized light is becoming popular in a widening array of applications because of increasing miniaturization of integrated circuits and breakthroughs in knowledge of biological macromolecules deriving from DNA and protein surface research Ellipsometry does not contact or damage samples and is an ideal measurement technique for determining optical and physical properties of materials at the nano scale With the acceleration of new instruments and applications now occurring this book provides an essential foundation for the current science and technology of ellipsometry for scientists and engineers in industry and academia at the forefront of nanotechnology developments in instrumentation integrated circuits biotechnology and pharmaceuticals Divided into four parts this comprehensive handbook covers the theory of ellipsometry instrumentation applications and emerging areas Experts in the field contributed to its twelve chapters covering various aspects of ellipsometry Spectroscopic Ellipsometry Harland G. Tompkins, James N. Hilfiker, 2015-12-16 Ellipsometry is an experimental technique for determining the thickness and optical properties of thin films It is ideally suited for films ranging in thickness from sub nanometer to several microns Spectroscopic measurements have greatly expanded the capabilities of this technique and introduced its use into all areas where thin films are found semiconductor devices flat panel and mobile displays optical coating stacks biological and medical coatings protective layers and more While several scholarly books exist on the topic this book provides a good introduction to the basic theory of the technique and its common applications The target audience is not the ellipsometry scholar but process engineers and students of materials science who are experts in their own fields and wish to use ellipsometry to measure thin film properties without becoming an expert in ellipsometry itself **Semiconductor Strain Metrology** Terence K. S. Wong, 2012 This book surveys the major and newly developed techniques for semiconductor strain metrology Semiconductor strain metrology has emerged in recent years as a topic of great interest to researchers involved in thin film and nanoscale device characterizati **Nondestructive Materials Characterization** Norbert G. H. Meyendorf, Peter B. Nagy, Stanislav I. Rokhlin, 2013-11-21 Nondestructive Evaluation NDE becomes a key discipline for modern technology Information about materials defects and properties is significant to guarantee reliability of a product and

avoid fatal accidents For instance technologies with high safety requirements like aviation automotive and energy production are driving forces for NDE Keeping in mind that aging of the infrastructure is an issue in all industrial countries and that for example an aircraft can have a lifetime of several decades poses new challenges for NDE and especially nondestructive materials characterization Besides the traditional in field applications NDE becomes more and more a tool to study materials degradation processes and to provide engineers with input data for sophisticated models describing materials behavior and the life of components At present this marriage of NDE and materials modeling shows significant success in predicting damage progression corrosion fatigue and thus an enhancement of availability and reliability of components and complete aircraft This book will give a snapshot of the present research in materials characterization of aging aircraft Methods considered are x ray ultrasonic optical and thermal techniques and in particular techniques with high spatial resolution to detect and quantify early stages of degradation or to characterize materials microstructure Every chapter briefly describes the basics and the principles of one NDE method under consideration Discussing recent research results by applying these methods completes the chapters The readers will get an overview of the present state of the art of materials characterization techniques

Spectroscopic Ellipsometry Hiroyuki Fujiwara, 2007-09-27 Ellipsometry is a powerful tool used for the characterization of thin films and multi layer semiconductor structures This book deals with fundamental principles and applications of spectroscopic ellipsometry SE Beginning with an overview of SE technologies the text moves on to focus on the data analysis of results obtained from SE Fundamental data analyses principles and physical backgrounds and the various materials used in different fields from LSI industry to biotechnology are described The final chapter describes the latest developments of real time monitoring and process control which have attracted significant attention in various scientific and industrial fields

Corrosion and Corrosion Protection James Douglas Sinclair, 2001

Handbook of Deposition Technologies for Films and Coatings Rointan F. Bunshah, 1994-12-31 This second edition edited by the world renowned Dr Rointain Bunshah is an extensive update of the many improvements in deposition technologies mechanisms and applications Considerably more material was added in Plasma Assisted Vapor Deposition processes as well as Metallurgical Coating Applications

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 Addresses interferometry holography and speckle methods and applications Explains Moir 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

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