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Dr. Milton Ohring, author of two previously acclaimed Academic Press books, The Materials Science of Thin Films (1992) and Engineering Materials Science (1995), has taught courses on reliability and failure in electronics at Bell Laboratories (AT&T and Lucent Technologies). From this perspective and the well-written tutorial style of the book, the

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The first true textbook to provide broad coverage of thin films from processing to performance Covers film materials used in microelectronics, magnetic applications, optics, and metallurgical and protective coatings Includes chapters on epitaxy, surface modification using laser and ion beams, and emerging thin film

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approximate added value in a contact lens manufactured from a polymer. This text then examines several problems based on the electron energy levels for various elements. Other chapters explain why the lattice constants of materials can be determined with extraordinary precision by X-ray diffraction, but with constantly less precision and accuracy using electron diffraction techniques. This book discusses as well the formula for the condensation reaction between urea and formaldehyde to produce thermosetting urea-formaldehyde. The final chapter deals with the similarities between

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electrically and mechanically functional materials with regard to reliability issues. This book is a valuable resource for engineers, students, and research workers.

This is the first book that can be considered a textbook on thin film science, complete with exercises at the end of each chapter. Ohring has contributed many highly regarded reference books to the AP list, including Reliability and Failure of Electronic Materials and the Engineering Science of Thin Films. The knowledge base is intended for science and engineering students in advanced

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undergraduate or first-year graduate level courses on thin films and scientists and engineers who are entering or require an overview of the field. Since 1992, when the book was first published, the field of thin films has expanded tremendously, especially with regard to technological applications. The second edition will bring the book up-to-date with regard to these advances. Most chapters have been greatly updated, and several new chapters have been added.

Milton Ohring's Engineering Materials Science integrates the scientific nature and modern

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applications of all classes of engineering materials. This comprehensive, introductory textbook will provide undergraduate engineering students with the fundamental background needed to understand the science of structure-property relationships, as well as address the engineering concerns of materials selection in design, processing materials into useful products, and how material degrade and fail in service. Specific topics include: physical and electronic structure; thermodynamics and kinetics; processing; mechanical, electrical, magnetic, and optical properties;

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degradation; and failure and reliability. The book offers superior coverage of electrical, optical, and magnetic materials than competing text. The author has taught introductory courses in material science and engineering both in academia and industry (AT&T Bell Laboratories) and has also written the well-received book, *The Material Science of Thin Films* (Academic Press).

Reliability and Failure of Electronic Materials and Devices is a well-established and well-regarded reference work offering unique, single-source coverage of most major

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topics related to the performance and failure of materials used in electronic devices and electronics packaging. With a focus on statistically predicting failure and product yields, this book can help the design engineer, manufacturing engineer, and quality control engineer all better understand the common mechanisms that lead to electronics materials failures, including dielectric breakdown, hot-electron effects, and radiation damage. This new edition adds cutting-edge knowledge gained both in research labs and on the manufacturing floor, with new sections on plastics and other new

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packaging materials, new testing procedures, and new coverage of MEMS devices. Covers all major types of electronics materials degradation and their causes, including dielectric breakdown, hot-electron effects, electrostatic discharge, corrosion, and failure of contacts and solder joints New updated sections on "failure physics," on mass transport-induced failure in copper and low-k dielectrics, and on reliability of lead-free/reduced-lead solder connections New chapter on testing procedures, sample handling and sample selection, and experimental design Coverage of new packaging

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materials, including plastics and composites

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Chemical Solution Synthesis for Materials Design and Thin Film Device Applications presents current research on wet chemical techniques for thin-film based devices. Sections cover the quality of thin films, types of common films used in devices,

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various thermodynamic properties, thin film patterning, device configuration and applications. As a whole, these topics create a roadmap for developing new materials and incorporating the results in device fabrication. This book is suitable for graduate, undergraduate, doctoral students, and researchers looking for quick guidance on material synthesis and device fabrication through wet chemical routes. Provides the different wet chemical routes for materials synthesis, along with the most relevant thin film structured materials for device applications Discusses patterning and

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solution processing of inorganic thin films, along with solvent-based processing techniques Includes an overview of key processes and methods in thin film synthesis, processing and device fabrication, such as nucleation, lithography and solution processing

The second, updated edition of this essential reference book provides a wealth of detail on a wide range of electronic and photonic materials, starting from fundamentals and

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building up to advanced topics and applications. Its extensive coverage, with clear illustrations and applications, carefully selected chapter sequencing and logical flow, makes it very different from other electronic materials handbooks. It has been written by professionals in the field and instructors who teach the subject at a university or in corporate laboratories. The Springer Handbook of Electronic and Photonic Materials, second edition, includes practical applications used as examples, details of experimental techniques, useful tables that summarize equations, and, most importantly,

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properties of various materials, as well as an extensive glossary. Along with significant updates to the content and the references, the second edition includes a number of new chapters such as those covering novel materials and selected applications. This handbook is a valuable resource for graduate students, researchers and practicing professionals working in the area of electronic, optoelectronic and photonic materials.

When Ohring's Materials Science of Thin Films was first published in 1992, there were

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already at least 200 existing books on various aspects of thin film science and technology, but Ohring was quickly recognized as the first true textbook on the subject specifically intended for senior/graduate level classroom use in universities, as well as industrial in-house or short courses offered by professional societies. It offers the most comprehensive coverage of materials science and technology related to thin films and coatings of any book in the field. Partly because of that and because of the author's engaging writing style, *Materials Science of Thin Films* has been, and continues to be, the

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leading textbook in the field. The 3rd edition has been capably revised by Dr. Daniel Gall, associate professor of materials science and engineering at RPI, and Dr. Shefford Baker, associate professor of materials science and engineering at Cornell University. Provides the most comprehensive coverage of materials science and technology related to thin films and coatings of any book in the field Content has been updated to include coverage of the latest and most important deposition techniques, including atomic layer deposition and high impulse magnetron sputtering Includes new or expanded

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coverage of recent developments in thin films technology, such as filtered cathodic arcs, nanorod growth by the vapor-liquid-solid process, carbon nanotubes, new quantitative kinetic nucleation models, atomic-level growth classifications, bi-textured layers, surface morphological evolution models, and competitive grain growth

The third method invented is called the Rolling-assisted-biaxially-textured-substrates (RABiTS). The book is divided into four sections. The first section discusses the three methods to fabricate biaxially

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textured substrates, upon which, epitaxial YBCO or other HTS materials can be deposited to realize a single-crystal-like HTS wire. The second section includes chapters on various methods of HTS deposition such as pulsed laser ablation (PLD), thermal co-evaporation, sputtering, pulsed electron beam deposition, ex-situ BaF₂ by co-evaporation followed by annealing, chemical solution based ex-situ processes, jet vapor deposition, metal organic chemical vapor deposition (MOCVD), and liquid phase epitaxy (LPE). The third section includes detailed chapters on other HTS materials such as the various Tl-

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based and Hg-based conductors. These Second-Generation HTS conductors, also referred to as "Coated conductors" represent one of the most exciting developments in HTS technology.

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