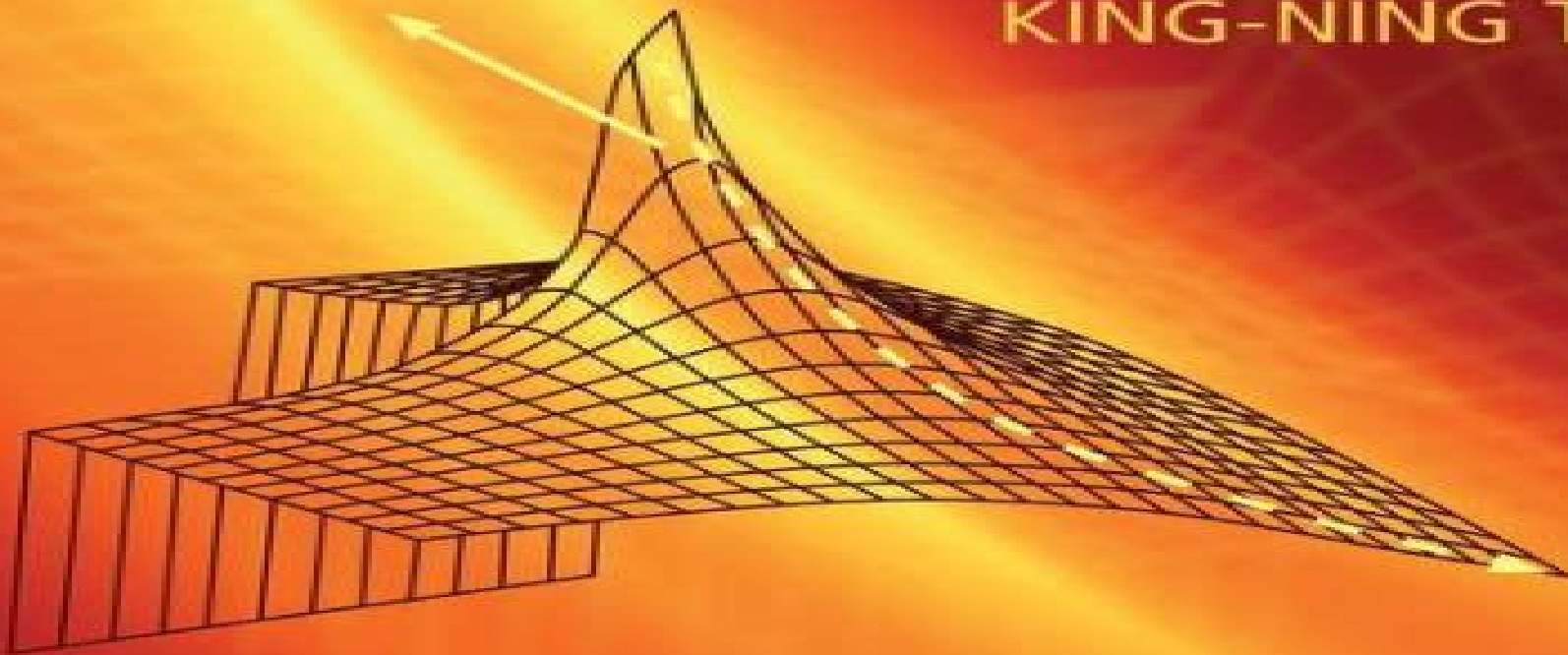


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Electronic Thin-Film Reliability King-Ning Tu, 2010-11-25 Thin films are widely used in the electronic device industry. As the trend for miniaturization of electronic devices moves into the nanoscale domain, the reliability of thin films becomes an increasing concern. Building on the author's previous book *Electronic Thin Film Science* by Tu, Mayer and Feldman and based on a graduate course at UCLA given by the author, this new book focuses on reliability science and the processing of thin films. Early chapters address fundamental topics in thin film processes and reliability, including deposition, surface energy, and atomic diffusion, before moving on to systematically explain irreversible processes in interconnect and packaging technologies. Describing electromigration, thermomigration, and stress migration, with a closing chapter dedicated to failure analysis, the reader will come away with a complete theoretical and practical understanding of electronic thin film reliability. Kept mathematically simple with real world examples, this book is ideal for graduate students, researchers, and practitioners.

Electromigration in Thin Films and Electronic Devices Choong-Un Kim, 2011 **Reliability and Failure of Electronic Materials and Devices** Milton Ohring, Lucian Kasprzak, 2014-10-14 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 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 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 materials, including plastics and composites. **Materials Science of Thin Films** Milton Ohring, 2001-10-20 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 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 Handbook of Solid State Diffusion: Volume 2 Aloke Paul, Sergiy Divinski, 2017-04-13 Handbook of Solid State Diffusion Volume 2 Diffusion Analysis in Material Applications covers the basic fundamentals techniques applications and latest developments in the area of solid state diffusion offering a pedagogical understanding for students academicians and development engineers Both experimental techniques and computational methods find equal importance in the second of this two volume set Volume 2 covers practical issues on diffusion phenomena in bulk thin film and in nanomaterials Diffusion related problems and analysis of methods in industrial applications such as electronic industry high temperature materials nuclear materials and superconductor materials are discussed Presents a handbook with a short mathematical background and detailed examples of concrete applications of the sophisticated methods of analysis Enables readers to learn the basic concepts of experimental approaches and the computational methods involved in solid state diffusion Covers bulk thin film and nanomaterials Introduces the problems and analysis in important materials systems in various applications Collates contributions from academic and industrial problems from leading scientists involved in developing key concepts across the globe **Silicon and Silicide Nanowires** Yu Huang, King-Ning Tu, 2016-04-19 Nanoscale materials are showing great promise in various electronic optoelectronic and energy applications Silicon Si has especially captured great attention as the leading material for microelectronic and nanoscale device applications Recently various silicides have garnered special attention for their pivotal role in Si device engineering **Kinetics in Nanoscale Materials** King-Ning Tu, Andriy M. Gusak, 2014-05-16 As the ability to produce nanomaterials advances it becomes more important to understand how the energy of the atoms in these materials is affected by their reduced dimensions Written by an acclaimed author team Kinetics in Nanoscale Materials is the first book to discuss simple but effective models of the systems and processes that have recently been discovered The text for researchers and graduate students combines the novelty of nanoscale processes and systems with the transparency of mathematical models and generality of basic ideas relating to nanoscience and nanotechnology *Factors Governing Tin Whisker Growth* Erika R Crandall, 2013-08-15 Tin Sn whiskers are electrically conductive single crystal eruptions that grow from Sn film surfaces Their high aspect ratio presents reliability problems for the electronics industry due to bridging and metal arcing leading to malfunctions and catastrophic failures in many electronic systems including satellite and defense sectors Due to legislation in the EU Japan and the U S mandating a gradual shift from lead Pb based to lead free solders and board finishes there has been a reemergence of Sn whiskers Continuing reports of Sn whisker induced failures coupled with the lack of an industry accepted understanding of whisker growth and or test methods to identify whisker prone products has made pure high Sn substitutes a risky proposition in high reliability systems This thesis is designed to clarify and control the fundamental mechanisms that govern whisker formation The research focuses on reproducible laboratory created whiskers under a variety of rigorously controlled environmental factors such as film thickness film stress substrate material gas environment and humidity exposure which are known to play a significant role in

whisker production The ultimate question of how to impede and or prevent whisker growth is also addressed and shows that whisker prevention is possible via hard metal capping films which are impenetrable by whiskers Research and Technology Program Digest United States. National Aeronautics and Space Administration, Corrosion Fahmina Zafar, Anujit Ghosal, Eram Sharmin, 2022-07-27 Corrosion in materials is responsible for huge direct as well as indirect losses around the world To address corrosion a combinational approach involving molecular simulations of natural inhibitors pre structural designs and the development of traditional but functional polymeric nanocomposites is recommended This book presents the basics of corrosion from thermodynamic and kinetic points of view discusses the major driving force behind corrosion and provides insight into possible remediation techniques *The International Journal of Microcircuits and Electronic Packaging* ,2000 **Research and Technology Program Digest Flash Index** ,1967 Thin Film Microelectronics L. Holland,1965 **3D Microelectronic Packaging** Yan Li, Deepak Goyal, 2020-11-23 This book offers a comprehensive reference guide for graduate students and professionals in both academia and industry covering the fundamentals architecture processing details and applications of 3D microelectronic packaging It provides readers an in depth understanding of the latest research and development findings regarding this key industry trend including TSV die processing micro bumps for LMI and MMI direct bonding and advanced materials as well as quality reliability fault isolation and failure analysis for 3D microelectronic packages Images tables and didactic schematics are used to illustrate and elaborate on the concepts discussed Readers will gain a general grasp of 3D packaging quality and reliability concerns and common causes of failure and will be introduced to developing areas and remaining gaps in 3D packaging that can help inspire future research and development Proceedings of the National Electronics Conference ,1966 *U.S. Government Research & Development Reports* ,1970 **Mechanics and Materials for Electronic Packaging: Thermal and mechanical behavior and modeling** ,1994 *Thermal Management of Electronics Systems II* Eric Beyne, C. J. M. Lasance, J. Berghmans, 1997 The volume presents an overview of current developments in the thermal management of electronic systems This has been seen as an increasingly important factor in current design methodology The topics covered include thermal management in general analytical and computational thermal modelling thermal characterization of components single and multiphase convective cooling measurement techniques thermomechanical modelling and thermally induced failure Audience Research and development engineers and scientists whose work involves the design and manufacture of electronic systems **A Functional Description of the Edvac [an Automatically-sequence Serial Binary Electronic Digital Computer** Moore School of Electrical Engineering, 1949 Thin Film Materials, Processes, and Reliability G. S. Mathad, 2008-09 The symposium covered three topics i plasma processing for

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