

*Fourth Edition*

# PRINCIPLES OF Electronic Materials & Devices



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# Electronic Materials And Devices

**Safa O. Kasap**



## **Electronic Materials And Devices:**

Principles of Electronic Materials and Devices Safa O. Kasap, 2006 The third edition includes new topics and extended sections such as diffusion conduction in thin films interconnects in microelectronics electromigration Stefan's radiation law field emission from carbon nanotubes piezoresistivity amorphous semiconductors solar cells LEDs Debye relaxation giant magnetoresistance magnetic data storage Reststrahlen absorption luminescence and white LEDs and X ray diffraction Appendix It also has a large number of new worked examples numerous new homework problems and many new illustrations and photographs This text is one of the few books in the market that has the broad coverage of electronic materials and devices that today's scientists and engineers need Jacket

**Reliability and Failure of Electronic Materials and Devices** Milton Ohring, 1998-06-12 Suitable as a reference work for reliability professionals or as a text for advanced undergraduate or graduate students this book introduces the reader to the widely dispersed reliability literature of microelectronic and electronic optional devices Reliability and Failure of Electronic Materials and Devices integrates a treatment of chip and packaging level failures within the context of the atomic mechanisms and models used to explain degradation and the statistical handling of lifetime data Electromigration dielectric radiation damage and the mechanical failure of contacts and solder joints are among the failure mechanisms considered An underlying thread of the book concerns product defects their relation to yield and reliability the role they play in failure and the way they are experimentally exposed The reader will gain a deeper physical understanding of failure mechanisms in electronic materials and devices acquire skills in the mathematical handling of reliability data and better appreciate future technology trends and the reliability issues they raise Discusses reliability and failure on both the chip and packaging levels Handles the role of defects in yield and reliability Includes a tutorial chapter on the mathematics of reliability Focuses on electromigration dielectric breakdown hot electron effects electrostatic discharge corrosion radiation damage and the mechanical failure of packages contacts and solder joints Considers defect detection methods and failure analysis techniques

*Principles of Electronic Materials and Devices* Safa Kasap, 2005-03-25 Principles of Electronic Materials and Devices Third Edition is a greatly enhanced version of the highly successful text Principles of Electronic Materials and Devices Second Edition It is designed for a first course on electronic materials given in Materials Science and Engineering Electrical Engineering and Physics and Engineering Physics Departments at the undergraduate level The third edition has numerous revisions that include more beautiful illustrations and photographs additional sections more solved problems worked examples and end of chapter problems with direct engineering applications The revisions have improved the rigor without sacrificing the original semiquantitative approach that both the students and instructors liked and valued Some of the new end of chapter problems have been especially selected to satisfy various professional engineering design requirements for accreditation across international borders Advanced topics have been collected under Additional Topics which are not necessary in a short introductory treatment

Yield of Electronic Materials and Devices National Research Council (U.S.). National Materials Advisory Board. Ad Hoc Panel on Yield of Electronic Materials and Devices,1972      Yield of Electronic Materials and Devices National Research Council (U.S.). Ad Hoc Panel on Yield of Electronic Materials and Devices,1972      **Electronic Materials and Devices: and 15** [Anonymus AC00191002],1985      **Navon Ide Elec Matls + Devices 75** David H. Navon,1975-01-01      **Introduction to Electronic Materials and Devices** Sergio M. Rezende,2022-01-18 This textbook lays out the fundamentals of electronic materials and devices on a level that is accessible to undergraduate engineering students with no prior coursework in electromagnetism and modern physics The initial chapters present the basic concepts of waves and quantum mechanics emphasizing the underlying physical concepts behind the properties of materials and the basic principles of device operation Subsequent chapters focus on the fundamentals of electrons in materials covering basic physical properties and conduction mechanisms in semiconductors and their use in diodes transistors and integrated circuits The book also deals with a broader range of modern topics including magnetic spintronic and superconducting materials and devices optoelectronic and photonic devices as well as the light emitting diode solar cells and various types of lasers The last chapter presents a variety of materials with specific novel applications such as dielectric materials used in electronics and photonics liquid crystals and organic conductors used in video displays and superconducting devices for quantum computing Clearly written with compelling illustrations and chapter end problems Rezende s Introduction to Electronic Materials and Devices is the ideal accompaniment to any undergraduate program in electrical and computer engineering Adjacent students specializing in physics or materials science will also benefit from the timely and extensive discussion of the advanced devices materials and applications that round out this engaging and approachable textbook      **Corrosion and Reliability of Electronic Materials and Devices** Robert B. Comizzoli,Robert Peter Frankenthal,James Douglas Sinclair,1999      **Electronic Materials and Devices** ,1993      **Introduction to Electronic Materials and Devices** Sergio M. Rezende,2022 This textbook lays out the fundamentals of electronic materials and devices on a level that is accessible to undergraduate engineering students with no prior coursework in electromagnetism and modern physics The initial chapters present the basic concepts of waves and quantum mechanics emphasizing the underlying physical concepts behind the properties of materials and the basic principles of device operation Subsequent chapters focus on the fundamentals of electrons in materials covering basic physical properties and conduction mechanisms in semiconductors and their use in diodes transistors and integrated circuits The book also deals with a broader range of modern topics including magnetic spintronic and superconducting materials and devices optoelectronic and photonic devices as well as the light emitting diode solar cells and various types of lasers The last chapter presents a variety of materials with specific novel applications such as dielectric materials used in electronics and photonics liquid crystals and organic conductors used in video displays and superconducting devices for quantum computing Clearly written with compelling illustrations and chapter end problems

Rezende's Introduction to Electronic Materials and Devices is the ideal accompaniment to any undergraduate program in electrical and computer engineering. Adjacent students specializing in physics or materials science will also benefit from the timely and extensive discussion of the advanced devices materials and applications that round out this engaging and approachable textbook.

**Yield of Electronic Materials and Devices** National Research Council (U.S.). Ad Hoc Committee on Materials and Processes for Electron Devices, 1972

**Fundamentals Of Electronic Materials And Devices: A Gentle Introduction To The Quantum-classical World** Avik Ghosh, 2023-02-02

The Romans built enduring bridges well before Newton came along armed simply with a working knowledge of mechanics and materials. In contrast today's bridge building is an elaborate enterprise involving CAD tools, composite materials and acoustic imaging. When technology is pushed to its limits a working knowledge proves inadequate and an in-depth understanding of core physical principles both macroscopic and microscopic top down vs bottom up becomes essential. We find ourselves today at a similar crossroad in semiconductor device technology where a working knowledge of solid state electronics is no longer enough. Faced with the prohibitive cost of computing and the slowdown of chip manufacturing device scaling and the global supply chain the semiconductor industry is forced to explore alternate platforms such as 2 D materials, spintronics, analog processing and quantum engineering. This book combines top down classical device physics with bottom up quantum transport in a single venue to provide the basis for such a scientific exploration. It is essential easy reading for beginning undergraduate and practicing graduate students, physicists unfamiliar with device engineering and engineers untrained in quantum physics. With just a modest pre-requisite of freshman maths the book works quickly through key concepts in quantum physics, Matlab exercises and original homeworks to cover a wide range of topics from chemical bonding to Hofstadter butterflies, domain walls to Chern insulators, solar cells to photodiodes, FinFETs to Majorana fermions. For the practicing device engineer it provides new concepts such as the quantum of resistance while for the practicing quantum physicist it provides new contexts such as the tunnel transistor.

**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

**Nanotechnology for Electronic Materials and Devices** Anatoli Korkin, Evgeni Gusev, Jan K. Labanowski, Serge Luryi, 2010-05-07 The high level of attention and interest of the global community to NANO science and technology to a large extent is linked to the GIGAntic challenges for the continuing growth of information technology which sparked an unprecedented level of interdisciplinary and international cooperation among industrial and academic researchers companies IT market rivals and countries including former political and military rivals

Microelectronics technologies have reached a new stage in their development The latest miniaturization of electronic devices is approaching atomic dimensions interconnect bottlenecks are limiting circuit speeds new materials are being introduced into microelectronics manufacture at an unprecedented rate and alternative technologies to mainstream complementary metal oxide semiconductors CMOSs are being considered The very dynamic stage of science and technology related to the advanced and future electronics and photonics creates a growing gap between the large number of rapid publications and nanotechnology highlights in media on one side and fundamental understanding of underlying phenomena and an adequate evaluation of scientific discoveries and technological innovations on the other side Writing a tutorial book on fundamentals of science and technology for electronics at this time is almost the same level of challenge as writing a history book during a revolution

*Recent Developments in Electronic Materials and Devices* K. M. Nair, Amar S. Bhalla, S.-I. Hirano, 2012-03-28 With information on the subject of dielectric materials this volume brings important updates to electronic device engineers and researchers in the area of ferroelectric materials Topics include materials processes properties and electronic devices based on these materials and systems Proceedings of the symposium held at the 103rd Annual Meeting of The American Ceramic Society April 22-25 2001 in Indiana Ceramic Transactions Volume 131

**Iontronics** Janelle Leger, Magnus Berggren, Sue Carter, 2016-04-19 With contributions from a community of experts the book focuses on the use of ionic functions to define the principle of operation in polymer devices It begins by reviewing the scientific understanding and important scientific discoveries made on the electrochemistry of conjugated polymers It examines the known effects of ion incorporation including the theory and modulation of electrochemistry in polymer films and it explores the coupling of electronic and ionic transport in polymer films

**Electronic Materials and Devices** [Anonymus AC00191006], 1985

*Electronic Materials and devices* David H. Navon, 1975

**Flexible Electronics** William S. Wong, Alberto Salleo, 2009-04-09 Flexible electronics is rapidly finding many mainstream applications where low cost ruggedness lightweight unconventional form factors and ease of manufacturability are just some of the important advantages over their conventional rigid substrate counterparts Flexible Electronics Materials and Applications surveys the materials systems and processes that are used to fabricate devices that can be employed in a wide variety of applications including flexible flat

panel displays medical image sensors photovoltaics and electronic paper Materials discussed range from polymeric semiconductors to nanotube transparent conductors highlighting the important characteristics of each system and their target applications An overview of the performance benchmarks for the different materials is given in order to allow a direct comparison of these different technologies Furthermore the devices and processes most suitable for given applications in flexible electronics are identified Topics covered include An overview and history of flexible electronics Novel materials for solution processable thin film electronic devices and their properties Low temperature processing of conventional materials and devices on plastic foils Novel techniques such as printing and roll to roll processing for large area flexible electronics manufacturing Materials and device physics relevant to flexible electronics Device integration on flexible substrates Mechanical and electronic characteristics for thin film transistors and nano scale transparent conductors on flexible platforms Applications towards flexible displays sensors actuators solar energy radio frequency identification and micro electro mechanical systems Written by leading researchers in the field Flexible Electronics Materials and Applications serves as a reference for researchers engineers and students interested in the characteristics capabilities and limitations of these exciting materials and emerging applications

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