



Electronic Materials Science

James W. Mayer



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Electronic Materials Science Eugene A. Irene, 2005-03-25 A thorough introduction to fundamental principles and applications From its beginnings in metallurgy and ceramics materials science now encompasses such high tech fields as microelectronics polymers biomaterials and nanotechnology Electronic Materials Science presents the fundamentals of the subject in a detailed fashion for a multidisciplinary audience Offering a higher level treatment than an undergraduate textbook provides this text benefits students and practitioners not only in electronics and optical materials science but also in additional cutting edge fields like polymers and biomaterials Readers with a basic understanding of physical chemistry or physics will appreciate the text's sophisticated presentation of today's materials science Instructive derivations of important formulae usually omitted in an introductory text are included here This feature offers a useful glimpse into the foundations of how the discipline understands such topics as defects phase equilibria and mechanical properties Additionally concepts such as reciprocal space electron energy band theory and thermodynamics enter the discussion earlier and in a more robust fashion than in other texts Electronic Materials Science also features An orientation towards industry and academia drawn from the author's experience in both arenas Information on applications in semiconductors optoelectronics photocells and nanoelectronics Problem sets and important references throughout Flexibility for various pedagogical needs Treating the subject with more depth than any other introductory text Electronic Materials Science prepares graduate and upper level undergraduate students for advanced topics in the discipline and gives scientists in associated disciplines a clear review of the field and its leading technologies **Electronic Materials** James R Chelikowsky, Alfonso Franciosi, 1991-11-28

Electronic Materials H.L. Kwok, 2010-01-14 Volume is indexed by Thomson Reuters BCI WoS The electronic properties of solids have become of increasing importance in the age of information technology The study of solids and materials while having originated from the disciplines of physics and chemistry has evolved independently over the past few decades The classical treatment of solid state physics which emphasized classifications theories and fundamental physical principles is no longer able to bridge the gap between materials advances and applications In particular the more recent developments in device physics and technology have not necessarily been driven by new concepts in physics or new materials but rather by the ability of engineers to control crystal structures and properties better via advances in crystal growth and patterning techniques In many cases new applications simply arise from the adaption of conventional ideas to interdisciplinary areas One example is that of recent advances which rely heavily upon the availability of the sub micron technology developed by the semiconductor industry Another example is the emergence of nanotechnology Electronic Materials Science James W. Mayer, 2011-09-01 *The Materials Science of Semiconductors* Angus Rockett, 2007-11-20 This book describes semiconductors from a materials science perspective rather than from condensed matter physics or electrical engineering viewpoints It includes discussion of current approaches to organic materials for electronic devices It further describes the

fundamental aspects of thin film nucleation and growth and the most common physical and chemical vapor deposition techniques. Examples of the application of the concepts in each chapter to specific problems or situations are included along with recommended readings and homework problems.

Electronic Materials James R. Chelikowsky, Alfonso Franciosi, 2012-12-06. Modern materials science is exploiting novel tools of solid state physics and chemistry to obtain an unprecedented understanding of the structure of matter at the atomic level. The direct outcome of this understanding is the ability to design and fabricate new materials whose properties are tailored to a given device application. Although applications of materials science can range from low weight high strength composites for the automobile and aviation industry to biocompatible polymers, in no other field has progress been more strikingly rapid than in that of electronic materials. In this area it is now possible to predict from first principles the properties of hypothetical materials and to construct artificially structured materials with layer by layer control of composition and microstructure. The resulting superlattices, multiple quantum wells and high temperature superconductors among others will dominate our technological future. A large fraction of the current undergraduate and graduate students in science and engineering will be directly involved in furthering the revolution in electronic materials. With this book we want to welcome such students to electronic materials research and provide them with an introduction to this exciting and rapidly developing area of study. A second purpose of this volume is to provide experts in other fields of solid state physics and chemistry with an overview of contemporary research within the field of electronic materials.

Electronic Materials Science James W. Mayer, S. S. Lau, 1990. For an advanced undergraduate first grad course in materials science covering thin film materials.

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.

Electronic Materials N. Hannay, 2012-12-06 This volume constitutes the written proceedings of the Third International Conference on Materials Science held under the sponsorship of the Accademia Nazionale dei Lincei as the XIII summer course of the G. Donegani Foundation at Tremezzo, Italy, on September 4-15, 1972. The course of lectures was designed for scientists and engineers with a working knowledge of electronic materials who sought to extend their knowledge of the newest developments in the field. The rapid pace of research and exploratory development in electronic materials has led to a pressing need for continuing awareness and assessment of new electronic materials as well as renewal of information in the more traditional areas. Three classes of electronic materials were selected for the course. Semiconductors provide the foundation for solid state electronics and semiconductor devices represent the most sophisticated and advanced application of materials science and engineering known to modern technology. Yet the march of progress in semiconductors continues unabated: new semiconductor materials are in the research stage, new process technology is being developed, and new devices are being conceived. The second class of materials dealt with in the course, magnetic alloys and insulators, also has a firm application base; for example, computer performance is often measured in terms of the size of the magnetic memory. The tailoring of materials to provide particular combinations of desired magnetic properties is an integral part of the development of the electronics, just as in the case of semiconductors.

Principles of Electronic Materials and Devices Safa O.

Kasap, 2001-07 *Principles of Electronic Materials and Devices*, Second Edition, is a greatly enhanced version of the highly successful text *Principles of Electrical Engineering Materials and Devices*. It is designed for a first course on electronic materials given in Electrical Engineering, Materials Science and Engineering, and Physics Departments at the undergraduate level. The second edition has numerous revisions, additional sections such as Phonons and Optoelectronic Materials and Devices, more solved problems, and a completely new chapter on Optical Properties of Materials. The revisions have improved the rigor without sacrificing the original semiquantitative approach that the students liked. For example, the thermoelectric effect now includes the Mott-Jones index α , which is normally treated at the graduate level but has been introduced here through a semiquantitative discussion to explain the true sign of the Seebeck coefficient in metals, one of the most difficult graduate topics in quantum mechanics of metals. The problems have also been updated, and various difficult figures have been redrafted to enhance the pedagogy. The second edition includes the *Electronic Materials and Devices* CD-ROM. The CD includes color overhead transparency diagrams that can be printed by instructors and students on any color printer, an illustrated dictionary of electronic materials and devices, numerous selected topics and solved problems. The text, with its Selected Topics, can also serve as a first course in Materials Science aimed at electrical engineers and engineering physics students. It is suitable for both one- and two-semester courses. By focusing only on those topics relevant to materials that make up electronic and optoelectronic devices, the book offers students a deeper and more meaningful discussion of this material than is offered in general materials science textbooks. The coverage is up to date, and the applications are of special relevance.

to students of electronics materials science and engineering physics The solutions manual for the second edition is available from the publisher the McGraw Hill website and also from the author s website at <http://ElectronicMaterials.usask.ca>

Electronic Materials Science jw; lau mayer (ss),1989 *Electronic Materials* Yuriy M. Poplavko,2018-11-23 Mechanical and thermal properties are reviewed and electrical and magnetic properties are emphasized Basics of symmetry and internal structure of crystals and the main properties of metals dielectrics semiconductors and magnetic materials are discussed The theory and modern experimental data are presented as well as the specifications of materials that are necessary for practical application in electronics The modern state of research in nanophysics of metals magnetic materials dielectrics and semiconductors is taken into account with particular attention to the influence of structure on the physical properties of nano materials The book uses simplified mathematical treatment of theories while emphasis is placed on the basic concepts of physical phenomena in electronic materials Most chapters are devoted to the advanced scientific and technological problems of electronic materials in addition some new insights into theoretical facts relevant to technical devices are presented *Electronic Materials* is an essential reference for newcomers to the field of electronics providing a fundamental understanding of important basic and advanced concepts in electronic materials science Provides important overview of the fundamentals of electronic materials properties significant for device applications along with advanced and applied concepts essential to those working in the field of electronics Takes a simplified and mathematical approach to theories essential to the understanding of electronic materials and summarizes important takeaways at the end of each chapter Interweaves modern experimental data and research in topics such as nanophysics nanomaterials and dielectrics Principles of Electronic Materials and Devices Safa O. Kasap, Prof.,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 **Electronic Materials** N. Hannay,1973-10-01 This volume constitutes the written proceedings of the Third International Conference on Materials Science held under the sponsorship of the Accademia Nazionale dei Lincei as the XIII summer course of the G Donegani Foundation at Tremezzo Italy on September 4 15 1972 The course of lectures was designed for scientists and engineers d th a wrking knowledge of electronic materials

who sought to extend their knowledge of the newest developments in the field The rapid pace of research and exploratory development in electronic materials has led to a pressing need for continuing awareness and assessment of new electronic materials as well as renewal of information in the more traditional areas Three classes of electronic materials were selected for the course Semiconductors provide the foundation for solid state electronics and semiconductor devices represent the most sophisticated and advanced application of materials science and engineering known to modern technology Yet the march of progress in semiconductors continues unabated new semiconductor materials are in the research stage new process technology is being developed and new devices are being conceived The second class of materials dealt with in the course magnetic alloys and insulators also has a firm application base for example computer performance is often measured in terms of the size of the magnetic memory The tailoring of materials to provide particular combinations of desired magnetic properties is an integral part of the development of the electronics just as in the case of semiconductors

Electronic Materials Conference, 1995 Electronic Materials L.A.A. Warnes, 2012-12-06 The importance of materials science for the progress of electronic technology has been apparent to all since the invention of the transistor in 1948 though that epoch making event was the result of far sighted research planning by Bell Laboratories dating from a decade or more before no mere chance discovery therefore but the fruition of work which allotted at its inception a vital role to materials The transistor is now very old hat but new materials developments are continually triggering fresh developments in electronics from optical communications to high temperature superconductors Electronic engineers are now given at least two courses in materials as part of their degree programme This book arose from a series of forty lectures the author gave to the third year students on the Extended Honours Degree Course in Electronic and Electrical Engineering at Loughborough University though additional elementary material has been included to make the book suitable for first year students The biggest problem in such a course is deciding what must be left out and this I am afraid I shirked by leaving out all those areas which I was not familiar with from my days in the Ministry of Aviation the semiconductor device industry and as a graduate student and research worker I hope that what remains is sufficiently catholic

Introduction to the Electronic Properties of Materials David Jiles, 2012-10-29 The subject of electronics and in particular the electronic properties of materials is one which has experienced unprecedented growth in the last thirty years The discovery of the transistor and the subsequent development of integrated circuits has enabled us to manipulate and control the electronic properties of materials to such an extent that the entire telecommunications and computer industries are dependent on the electronic properties of a few semiconducting materials The subject area is now so important that no modern physics materials science or electrical engineering degree programme can be considered complete without a significant lecture course in electronic materials Ultimately the course requirements of these three groups of students may be quite different but at the initial stages of the discussion of electronic properties of materials the course requirements are broadly identical for each of these groups Furthermore as the subject

continues to grow in importance the initial teaching of this vital subject needs to occur earlier in the curriculum in order to give the students sufficient time later to cover the increasing amount of material

Electronic Materials L. S. Miller, J. B. Mullin, 1991 With one or two exceptions the materials dealt with are all active materials those involved in the processing of signals in a way that depends crucially on some specific property of those materials The types of signals considered include optical as well as electronic functions and also chemical s

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

An Introduction to Electronic Materials for Engineers Wei Gao, Zhengwei Li, Nigel M. Sammes, 2011 Presents an overview of various materials such as conducting materials semiconductors magnetic materials optical materials dielectric materials superconductors thermoelectric materials and ionic materials This title includes chapters on thin film electronic materials organic electronic materials and nanostructured materials

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