

Semiconducting Materials

- A semiconductor has electrical conductivity between that of a conductor and an insulator.
- Semiconductors differ from metals in their characteristic property of decreasing electrical resistivity with increasing temperature.

Semiconducting Materials

S. Mahajan, L. C. Kimerling



Semiconducting Materials:

Advanced Semiconducting Materials and Devices K.M. Gupta, Nishu Gupta, 2015-08-20 This book presents the latest developments in semiconducting materials and devices providing up to date information on the science processes and applications in the field A wide range of topics are covered including optoelectronic devices metal semiconductor junctions heterojunctions MISFETs LEDs semiconductor lasers photodiodes switching diodes tunnel diodes Gunn diodes solar cells varactor diodes IMPATT diodes and advanced semiconductors Detailed attention is paid to advanced and futuristic materials In addition clear explanations are provided of for example electron theories high field effects the Hall effect transit time effects drift and diffusion breakdown mechanisms equilibrium and transient conditions switching and biasing The book is designed to meet the needs of undergraduate engineering students and will also be very useful for postgraduate students it will assist in preparation for examinations at colleges and universities and for other examinations in engineering Practice questions are therefore presented in both essay and multiple choice format and many solved examples and unsolved problems are included

2D Semiconducting Materials for Electronic, Photonic, and Optoelectronic Devices Anuj Kumar, Ram K. Gupta, 2024-11-07 Two dimensional semiconducting materials 2D SCMs are the subject of intensive study in the fields of photonics and optoelectronics because of their unusual optical electrical thermal and mechanical properties The main objective of 2D Semiconducting Materials for Electronic Photonic and Optoelectronic Devices is to provide current state of the art knowledge of two dimensional semiconducting materials for various applications Two dimensional semiconducting materials are the basic building blocks for making photodiodes light emitting diodes light detecting devices data storage telecommunications and energy storage devices When it comes to two dimensional semiconducting materials electronic photonic and optoelectronic applications as well as future plans for improving performance no modern book covers as much ground The planned book will fill such gaps by offering a comprehensive analysis of two dimensional semiconducting materials This book covers a range of advanced 2D materials their fundamentals and the chemistry for many emerging applications All the chapters are covered by experts in these areas around the world making this a suitable textbook for students and providing new guidelines to researchers and industries Covers topics such as fundamentals and advanced knowledge of two dimensional semiconducting materials Provides details about the recent methods used for the synthesis characterization and applications of two dimensional semiconducting materials Covers the state of the art development in two dimensional semiconducting materials and their emerging applications This book provides directions to students scientists and researchers in semiconductors and related disciplines to help them better understand the physics characteristics and applications of 2D semiconductors

Concise Encyclopedia of Semiconducting Materials & Related Technologies S. Mahajan, L. C. Kimerling, 2013-10-22 The development of electronic materials and particularly advances in semiconductor technology have played a central role in the electronics revolution by allowing the production of

increasingly cheap and powerful computing equipment and advanced telecommunications devices This Concise Encyclopedia which incorporates relevant articles from the acclaimed Encyclopedia of Materials Science and Engineering as well as newly commissioned articles emphasizes the materials aspects of semiconductors and the technologies important in solid state electronics Growth of bulk crystals and epitaxial layers are discussed in the volume and coverage is included of defects and their effects on device behavior Metallization and passivation issues are also covered Over 100 alphabetically arranged articles written by world experts in the field are each intended to serve as the first source of information on a particular aspect of electronic materials The volume is extensively illustrated with photographs diagrams and tables A bibliography is provided at the end of each article to guide the reader to recent literature A comprehensive system of cross references a three level subject index and an alphabetical list of articles are included to aid readers in the abstraction of information

Crystalline Semiconducting Materials and Devices Paul N. Butcher, Norman H. March, Mario P. Tosi, 2013-11-11 This book is concerned primarily with the fundamental theory underlying the physical and chemical properties of crystalline semiconductors After basic introductory material on chemical bonding electronic band structure phonons and electronic transport some emphasis is placed on surface and interfacial properties as well as effects of doping with a variety of impurities Against this background the use of such materials in device physics is examined and aspects of materials preparation are discussed briefly The level of presentation is suitable for postgraduate students and research workers in solid state physics and chemistry materials science and electrical and electronic engineering Finally it may be of interest to note that this book originated in a College organized at the International Centre for Theoretical Physics Trieste in Spring 1984 P N Butcher N H March M P Tosi vii Contents 1 Bonds and Bands in Semiconductors 1 E Mooser 1 1 Introduction 1 2 The Semiconducting Bond 2 1 3 Bond Approach Versus Band Model 6 1 4 Construction of the Localized X by Linear Combination of n Atomic Orbitals 13 1 5 The General Octet Rule 23 1 6 The Aufbau Principle of the Crystal Structure of Semiconductors 26 1 7 A Building Principle for Polyanionic Structures 29 I H Structural Sorting 39 1 9 Chemical Bonds and Semiconductivity in Transition Element Compounds 46 1 10 Conclusion 53 References 54 2 Electronic Band Structure 55 G

Grosso 2 1 Two Different Strategies for Band Structure Calculations 55 2 2 The Tight Binding Method **Concise Encyclopedia of Semiconducting Materials & Related Technologies** S. Mahajan, L. C. Kimerling, 1992-12-31 The development of electronic materials and particularly advances in semiconductor technology have played a central role in the electronics revolution by allowing the production of increasingly cheap and powerful computing equipment and advanced telecommunications devices This Concise Encyclopedia which incorporates relevant articles from the acclaimed Encyclopedia of Materials Science and Engineering as well as newly commissioned articles emphasizes the materials aspects of semiconductors and the technologies important in solid state electronics Growth of bulk crystals and epitaxial layers are discussed in the volume and coverage is included of defects and their effects on device behavior Metallization and

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Research on New High-temperature Semiconducting Materials Shaun S. Devlin, 1960

Electron Microscopy of Semiconducting Materials and ULSI Devices Clive Hayzelden, Crispin Hetherington, Frances Ross, 1998 The first symposium on electron microscopy and materials for ultra large scale integration ULSI at the Society's meeting attracted 34 papers by contributors from Asia North America and Europe They cover specimen preparation and defect analysis in semiconductor devices metallization silicides and diffusion barriers the advanced characterization of ULSI structures and semiconductor epitaxy and heterostructures Annotation copyrighted by Book News Inc Portland OR

Synthesis and Characterization of Oligothiophene-based Compounds for Use as Semiconducting Materials in Thin-film Transistors Michael William Burand, 2006

Handbook of Electronic Materials M. Neuberger, 2012-12-06 This report was prepared by Hughes Aircraft Company Culver City California under Contract Number F33615 70 C 1348 The work was administered under the direction of the Air Force Materials Laboratory Air Force Systems Command Wright Patterson Air Force Base Ohio with Mr B Emrich Project Engineer The Electronic Properties Information Center EPIC is a designated Information Analysis Center of the Department of Defense authorized to provide information to the entire DoD community The purpose of the Center is to provide a highly competent source of information and data on the electronic optical and magnetic properties of materials of value to the Department of Defense Its major function is to evaluate compile and publish the experimental data from the world's unclassified literature concerned with the properties of materials All materials relevant to the field of electronics are within the scope of EPIC insulators semiconductors metals superconductors ferrites ferroelectrics ferromagnetics electroluminescents thermionic emitters and optical materials The Center's scope includes information on over 100 basic properties of materials information generally regarded as being in the area of devices and or circuitry is excluded Grateful acknowledgement is made for the review and comments by Dr Victor Rehn of the U S Naval Ordnance Test Station at China Lake California as well as for review by staff members of the National Bureau of Standards National Standard Data Reference System

v CONTENTS Introduction
Composite Data Table 5 Diamond 6 Bibliography 11 Germanium 14 Bibliography 28 Silicon 36 Bibliography

Materials for Semiconductor Devices C. Grovenor, 1987

Semiconductor Materials B.G. Yacobi, 2003-01-31 The main objective of this book is to provide an introductory perspective of the basic principles of semiconductors being an integrated overview of the basic properties applications and characterization of semiconductors in a single volume This book is suitable for both undergraduate and graduate students and for researchers working in a wide variety of fields in physical and engineering

sciences who require an introductory and concise description of the field of semiconductors **Semiconductors** ,2004
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Research in NEW SEMICONDUCTOR MATERIALS Akademii[a] de Shtiint[s]e a RSSM. Institut fiziki i matematiki,1965
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Table of Contents Semiconducting Materials

1. Understanding the eBook Semiconducting Materials
 - The Rise of Digital Reading Semiconducting Materials
 - Advantages of eBooks Over Traditional Books
2. Identifying Semiconducting Materials
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Semiconducting Materials
 - User-Friendly Interface
4. Exploring eBook Recommendations from Semiconducting Materials
 - Personalized Recommendations
 - Semiconducting Materials User Reviews and Ratings

- Semiconducting Materials and Bestseller Lists
- 5. Accessing Semiconducting Materials Free and Paid eBooks
 - Semiconducting Materials Public Domain eBooks
 - Semiconducting Materials eBook Subscription Services
 - Semiconducting Materials Budget-Friendly Options
- 6. Navigating Semiconducting Materials eBook Formats
 - ePub, PDF, MOBI, and More
 - Semiconducting Materials Compatibility with Devices
 - Semiconducting Materials Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Semiconducting Materials
 - Highlighting and Note-Taking Semiconducting Materials
 - Interactive Elements Semiconducting Materials
- 8. Staying Engaged with Semiconducting Materials
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Semiconducting Materials
- 9. Balancing eBooks and Physical Books Semiconducting Materials
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Semiconducting Materials
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Semiconducting Materials
 - Setting Reading Goals Semiconducting Materials
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Semiconducting Materials
 - Fact-Checking eBook Content of Semiconducting Materials
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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