

V. E. Borisenko
(Ed.)

Semi- conducting Silicides



Springer

Semiconducting Silicides Basics Formation Properties

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Semiconducting Silicides Basics Formation Properties:

Semiconducting Silicides Victor E. Borisenko, 2013-03-07 Semiconductors are well known as the main materials of modern solid state electronics. They have held the attention of researchers and engineers since the brilliant invention of the semiconductor transistor by Bardeen, Brattain and V. V. Shockley in the middle of the 20th century. Silicon, germanium, AlIIB and AlIB compounds have been widely used in discrete semiconductor devices and microelectronic and nanoelectronic integrated systems. Each of these materials has separately met specific physical and technological requirements to provide formation of solid state structures with the best electronic or optical performance. However, attempts to combine them within integrated circuits appear to be ineffective or even technologically impossible. Thus, material and related technological compatibilities are important for further progress, particularly in microelectronics, optoelectronics and nanoelectronics. This stimulates an increasing interest in silicides and silicon-germanium alloys, which provide new prospects for silicon-based integration. Elements from the Periodic Table form more than 180 silicides, which are chemical compounds of silicon with different metals. Most of them, except the silicides of lanthanides and actinides, are shown in Table 1. Along with appropriate compatibility with silicon and easy formation by silicidation in a metal-silicon couple, silicides are characterized by high thermal stability and resistance to oxidation. The majority of them are metallic and have low resistivity. Exactly metallic silicides were first employed for interconnections, gates in MOS structures, ohmic contacts and Schottky barriers in silicon integrated circuits. For a comprehensive overview of their properties and general features of the formation technology, the reader may address the books and reviews 1-10.

Semiconducting Silicides Victor E. Borisenko, 2000-01-24

Computational Technologies in Materials Science Shubham Tayal, Parveen Singla, Ashutosh Nandi, J. Paulo Davim, 2021-10-06 Advanced materials are essential for economic security and human well-being with applications in industries aimed at addressing challenges in clean energy, national security and human welfare. Yet it can take years to move a material to the market after its initial discovery. Computational techniques have accelerated the exploration and development of materials, offering the chance to move new materials to the market quickly. Computational Technologies in Materials Science addresses topics related to AI, machine learning, deep learning and cloud computing in materials science. It explores characterization and fabrication of materials, machine learning-based models and computational intelligence for the synthesis and identification of materials. This book covers material testing and development using computational intelligence. Highlights the technologies to integrate computational intelligence and materials science. Details case studies and detailed applications. Investigates challenges in developing and using computational intelligence in materials science. Analyzes historic changes that are taking place in designing materials. This book encourages material researchers and academics to develop novel theories and sustainable computational techniques and explores the potential for computational intelligence to replace traditional materials research.

Order from Chaos Luca Spirdigliozzi, 2024-11-15 Order from Chaos Theoretical

Principles and Practical Aspects of the New Class of High Entropy Materials offers a comprehensive exploration of High Entropy Materials a novel class of materials characterized by complex compositions and unexpected properties The book delves into the fundamental principles underlying the formation and stabilization of differently structured High Entropy Ceramics presenting a detailed analysis of their main physical and technological properties Moreover the book discusses the challenges and future prospects of High Entropy Ceramics as well as their potential applications in various industrial sectors making it a useful resource for researchers and engineers in the field of advanced ceramics

Semiconductor Interfaces: Formation and Properties Guy LeLay, Jacques Derrien, Nino Boccara, 2012-12-06 The trend towards miniaturisation of microelectronic devices and the search for exotic new optoelectronic devices based on multilayers confer a crucial role on semiconductor interfaces Great advances have recently been achieved in the elaboration of new thin film materials and in the characterization of their interfacial properties down to the atomic scale thanks to the development of sophisticated new techniques This book is a collection of lectures that were given at the International Winter School on Semiconductor Interfaces Formation and Properties held at the Centre de Physique des Rouches from 24 February to 6 March 1987 The aim of this Winter School was to present a comprehensive review of this field in particular of the materials and methods and to formulate recommendations for future research The following topics are treated i Interface formation The key aspects of molecular beam epitaxy are emphasized as well as the fabrication of artificially layered structures strained layer superlattices and the tailoring of abrupt doping profiles ii Fine characterization down to the atomic scale using recently developed powerful techniques such as scanning tunneling microscopy high resolution transmission electron microscopy glancing incidence x ray diffraction x ray standing waves surface extended x ray absorption fine structure and surface extended energy loss fine structure iii Specific physical properties of the interfaces and their prospective applications in devices We wish to thank warmly all the lecturers and participants as well as the organizing committee who made this Winter School a success

Basic Properties of Semiconductors P.T. Landsberg, 2016-04-19 Since Volume 1 was published in 1982 the centres of interest in the basic physics of semiconductors have shifted Volume 1 was called Band Theory and Transport Properties in the first edition but the subject has broadened to such an extent that Basic Properties is now a more suitable title Seven chapters have been rewritten by the original authors However twelve chapters are essentially new with the bulk of this work being devoted to important current topics which give this volume an almost encyclopaedic form The first three chapters discuss various aspects of modern band theory and the next two analyze impurities in semiconductors Then follow chapters on semiconductor statistics and on surfaces interfaces and band offsets as they occur in heterojunctions Chapters 8 to 19 report on newer topics though a survey of transport properties of carriers is also included Among these are transport of hot electrons and thermoelectric effects including here and elsewhere properties of low dimensional and mesoscopic structures The electron hole liquid the quantum Hall effect localisation ballistic transport coherence in superlattices current

ideas on tunnelling and on quantum confinement and scattering processes are also covered **Metal Based Thin Films for Electronics** Klaus Wetzig, Claus M. Schneider, 2006-03-06 This up to date handbook covers the main topics of preparation characterization and properties of complex metal based layer systems The authors an outstanding group of researchers discuss advanced methods for structure chemical and electronic state characterization with reference to the properties of thin functional layers such as metallization and barrier layers for microelectronics magnetoresistive layers for GMR and TMR sensor and resistance layers As such the book addresses materials specialists in industry especially in microelectronics as well as scientists and can also be recommended for advanced studies in materials science analytics surface and solid state science **Silicides: Fundamentals & Applications** Francois D'heurle, Leo Miglio, 2000-12-18

Silicides were introduced into the technology of electronic devices some thirty years ago since then they have been continuously used to form both ohmic and rectifying contacts to silicon Silicides are also important for other applications thermoelectric devices and structural applications such as jet engines but it is not easy to find an updated reference containing both their basic properties either chemical or physical and the latest applications The 16th Course of the International School of Solid State Physics held in Erice Italy in the late spring of 1999 was intended to break artificial barriers between disciplines and to gather people concerned with the properties and applications of silicides regardless of the formal fields to which they belong or of the practical goals they pursue This book is therefore concerned with theory as well as applications metallurgy as well as physics and materials science as well as microelectronics **Industrial Ceramics**, 2001 **Formation Of Semiconductor Interfaces - Proceedings Of The 4th International Conference** J Pollman, B Lengeler, H Luth, W Monch, 1994-06-09 Semiconductor interfaces are of paramount importance in micro nano and optoelectronics Basic as well as applied research on such systems is therefore of extremely high current interest To meet the continuous need for a better understanding of semiconductor interfaces with respect to both their fundamental physical and chemical properties as well as their applications in modern opto and microelectronics the series of international conferences on the formation of semiconductor interfaces was begun The fourth conference of the series held in J lich addresses as main topics clean semiconductor surfaces adsorbates at semiconductor surfaces metal semiconductor insulator semiconductor and semiconductor semiconductor interfaces devices and wet chemical processes The 12 invited lectures assess the present status of the research in important areas and about 180 contributed papers describe most recent achievements in the field

Handbook of Semiconductor Manufacturing Technology Yoshio Nishi, Robert Doering, 2017-12-19 Retaining the comprehensive and in depth approach that cemented the bestselling first edition s place as a standard reference in the field the Handbook of Semiconductor Manufacturing Technology Second Edition features new and updated material that keeps it at the vanguard of today s most dynamic and rapidly growing field Iconic experts Robert Doering and Yoshio Nishi have again assembled a team of the world s leading specialists in every area of semiconductor manufacturing to provide the most

reliable authoritative and industry leading information available Stay Current with the Latest Technologies In addition to updates to nearly every existing chapter this edition features five entirely new contributions on Silicon on insulator SOI materials and devices Supercritical CO₂ in semiconductor cleaning Low dielectrics Atomic layer deposition Damascene copper electroplating Effects of terrestrial radiation on integrated circuits ICs Reflecting rapid progress in many areas several chapters were heavily revised and updated and in some cases rewritten to reflect rapid advances in such areas as interconnect technologies gate dielectrics photomask fabrication IC packaging and 300 mm wafer fabrication While no book can be up to the minute with the advances in the semiconductor field the Handbook of Semiconductor Manufacturing Technology keeps the most important data methods tools and techniques close at hand

Hard Compounds of Refractory Metals Grigoriĭ Valentinovich Samsonov, Umanskiĭ IĭAĭ. S., 1962 NASA Technical Translation, 1964 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

Semiconductors and Semimetals, 1984-12-20 Semiconductors and Semimetals *Ohmic Contacts to Semiconductors* Electrochemical Society, 1969 *Silicide Technology for Integrated Circuits* Institution of Electrical Engineers, 2004-12-21 This is the first book to provide guidance on the development and application of metal silicide technology as it emerges from the scientific to the prototype and manufacturing stages Other key topics covered are fundamentals present and future silicide technology for Si based devices and characterisation methods Suitable for engineers and students in microelectronics

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

Kirk-Othmer Concise Encyclopedia of Chemical Technology, 2 Volume Set Kirk-Othmer, 2007-07-16 This is an easily accessible two volume encyclopedia summarizing all the articles in the main volumes Kirk Othmer Encyclopedia of Chemical Technology Fifth Edition organized alphabetically Written by prominent scholars from industry academia and research institutions the Encyclopedia presents a wide scope of articles on chemical substances properties manufacturing and uses on industrial processes unit operations in chemical engineering and on fundamentals and scientific subjects related to the field

Advanced Light Alloys and Composites R. Ciach, 2013-06-29 An expert exposition of the structural and mechanical properties of light alloys and composites bridging the gap between scientists and industrial engineers in its consideration of advanced light materials their structure properties technology and application Includes basic problems of alloy constitution and phase transformations The aluminium alloys are the main topic of the book consideration being given to their properties casting technology thermomechanical treatment and structure Attention is also given to the magnesium alloys particularly those having rare earth metal constituents Both commercial titanium alloys and intermetallic compounds are discussed as are metallic composites The latest engineering techniques are discussed in both theoretical and practical terms

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