

V. E. Borisenko  
(Ed.)

# Semi- conducting Silicides



Springer

# Semiconducting Silicides Basics Formation Properties

**Lingjun Ying**



## **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, Al<sub>III</sub>B and Al<sub>II</sub>B 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

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

**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

**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

**Order from Chaos** Luca Spiridigliozzi,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

**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 CO<sub>2</sub> 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

*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 *Industrial Ceramics* ,2001

**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      *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      *Equilibrium Structure and Properties of Surfaces and Interfaces* A. Gonis,G.M. Stocks,2012-12-06 It is almost self evident that surface and interface science coupled with the electronic structure of bulk materials play a fundamental role in the understanding of materials properties If one is to have any hope of understanding such properties as catalysis microelectronic devices and contacts wear lubrication resistance to corrosion ductility creep intragranular fracture toughness and strength of steels adhesion of protective oxide scales and the mechanical properties of ceramics one must address a rather complex problem involving a number of fundamental parameters the atomic and electronic structure the energy and chemistry of surface and interface regions diffusion along and across interfaces and the response of an interface to stress The intense need to gain an understanding of the properties of surfaces and interfaces is amply attested to by the large number of conferences and workshops held on surface and interface science Because of this need the fields of surface and interface science have been established in their own right although their development presently lags behind that of general materials science associated with bulk translationally invariant systems There are good reasons to expect this situation to change rather dramatically in the next few years Existing techniques for investigating surfaces and interfaces have reached maturity and are increasingly being applied to systems of practical relevance New techniques are still being created which drastically widen the scope of applicability of surface and interface studies On the experimental side new microscopies are bearing fruit      **Basic Properties of Semiconductors** Peter Theodore Landsberg,1992 Hardbound 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      **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

*Ohmic Contacts to Semiconductors* Electrochemical Society, 1969

*Properties of Metal Silicides* Karen Maex, Marc van Rossum, 1995 The properties of silicon alloyed with metals are presented here for silicides of both transition and rare earth metals

*Polymers, Phosphors, and Voltaics for Radioisotope Microbatteries* Kenneth E. Bower, Yuri A. Barbanel, Yuri G. Shreter, George W. Bohnert, 2002-06-19 As the first book written solely on the subject of nuclear batteries and their potential to revolutionize the electronics industry this text will appeal to a broad audience from engineers to energy policy makers This collection of contributions from leading U S and Russian nuclear researchers contains diverse discussions of the problems of using radioactive material for microelectronic power needs and it guides readers to future research in the area of long life high energy density batteries It describes the state of interdisciplinary research in radiochemistry tritium storage semiconductor fabrication integration into MEMS and other electronic devices and much more

**Metallic Films for Electronic, Optical and Magnetic Applications** Katayun Barmak, Kevin Coffey, 2014-02-13 Metallic films play an important role in modern technologies such as integrated circuits information storage displays sensors and coatings Metallic Films for Electronic Optical and Magnetic Applications reviews the structure processing and properties of metallic films Part one explores the structure of metallic films using characterization methods such as x ray diffraction and transmission electron microscopy This part also encompasses the processing of metallic films including structure formation during deposition and post deposition reactions and phase transformations Chapters in part two focus on the properties of metallic films including mechanical electrical magnetic optical and thermal properties Metallic Films for Electronic Optical and Magnetic Applications is a technical resource for electronics components manufacturers scientists and engineers working in the semiconductor industry product developers of sensors displays and other optoelectronic devices and academics working in the field Explores the structure of metallic films using characterization methods such as x ray diffraction and transmission electron microscopy Discusses processing of metallic films including structure formation during deposition and post deposition reactions and phase transformations Focuses on the properties of metallic films including mechanical electrical magnetic optical and thermal properties

## Unveiling the Magic of Words: A Report on "**Semiconducting Silicides Basics Formation Properties**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Semiconducting Silicides Basics Formation Properties**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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