

Silicon

Rob Walker

Silicon Michael A. Sommers,2007-08-15 Explains the characteristics of silicon, where it is found, how it is used by humans, and its relationship to other elements found in the periodic table.

Silicon Paul Siffert,Eberhard Krimmel,2013-03-09 With topics ranging from epitaxy through lattice defects and doping to quantum computation, this book provides a personalized survey of the development and use of silicon, the basis for the revolutionary changes in our lives sometimes called The Silicon Age. Beginning with the very first developments more than 50 years ago, this reports on all aspects of silicon and silicon technology up to its use in exciting new technologies, including a glance at possible future developments.

Silicon Clara MacCarald,2018-12-15 Silicon is everywhere. It can be found in the rocks under our feet, in the windows of our homes, and in the brain of every smartphone. Without silicon to make computer chips, there would be no Silicon Valley in California. Silicon is second only to oxygen as the most common element in the earth's crust. Silicon isn't always hard, either. It's found in objects as bendable as a spatula or as stretchy as a bouncing putty. Tubes containing silicon can even help save people's lives. In this informative text, readers take a close look at this amazing element.

Silicon Materials Science and Technology Howard R. Huff,U. Gösele,H. Tsuya,1998

Silicon Destiny Rob Walker,1992

Polycrystalline Silicon for Integrated Circuits and Displays Ted Kamins,2012-12-06

Polycrystalline Silicon for Integrated Circuits and Displays, Second Edition presents much of the available knowledge about polysilicon. It represents an effort to interrelate the deposition, properties, and applications of polysilicon. By properly understanding the properties of polycrystalline silicon and their relation to the deposition conditions, polysilicon can be designed to

ensure optimum device and integrated-circuit performance. Polycrystalline silicon has played an important role in integrated-circuit technology for two decades. It was first used in self-aligned, silicon-gate, MOS ICs to reduce capacitance and improve circuit speed. In addition to this dominant use, polysilicon is now also included in virtually all modern bipolar ICs, where it improves the basic physics of device operation. The compatibility of polycrystalline silicon with subsequent high-temperature processing allows its efficient integration into advanced IC processes. This compatibility also permits polysilicon to be used early in the fabrication process for trench isolation and dynamic random-access-memory (DRAM) storage capacitors. In addition to its integrated-circuit applications, polysilicon is becoming vital as the active layer in the channel of thin-film transistors in place of amorphous silicon. When polysilicon thin-film transistors are used in advanced active-matrix displays, the peripheral circuitry can be integrated into the same substrate as the pixel transistors. Recently, polysilicon has been used in the emerging field of microelectromechanical systems (MEMS), especially for microsensors and microactuators. In these devices, the mechanical properties, especially the stress in the polysilicon film, are critical to successful device fabrication. Polycrystalline Silicon for Integrated Circuits and Displays, Second Edition is an invaluable reference for professionals and technicians working with polycrystalline silicon in the integrated circuit and display industries.

Silicon in Agriculture L.E. Datnoff, G.H. Snyder, G.H. Korndörfer, 2001-04-11 Presenting the first book to focus on the importance of silicon for plant health and soil productivity and on our current understanding of this element as it relates to agriculture. Long considered by plant physiologists as a non-essential element, or plant nutrient, silicon was the center of attention at the first international conference on Silicon in Agriculture, held in Florida in 1999. Ninety scientists,

growers, and producers of silicon fertilizer from 19 countries pondered a paradox in plant biology and crop science. They considered the element Si, second only to oxygen in quantity in soils, and absorbed by many plants in amounts roughly equivalent to those of such nutrients as sulfur or magnesium. Some species, including such staples as rice, may contain this element in amounts as great as or even greater than any other inorganic constituent. Compilations of the mineral composition of plants, however, and much of the plant physiological literature largely ignore this element. The participants in Silicon in Agriculture explored that extraordinary discrepancy between the silicon content of plants and that of the plant research enterprise. The participants, all of whom are active in agricultural science, with an emphasis on crop production, presented, and were presented with, a wealth of evidence that silicon plays a multitude of functions in the real world of plant life. Many soils in the humid tropics are low in plant available silicon, and the same condition holds in warm to hot humid areas elsewhere. Field experience, and experimentation even with nutrient solutions, reveals a multitude of functions of silicon in plant life. Resistance to disease is one, toleration of toxic metals such as aluminum, another. Silicon applications often minimize lodging of cereals (leaning over or even becoming prostrate), and often cause leaves to assume orientations more favorable for light interception. For some crops, rice and sugarcane in particular, spectacular yield responses to silicon application have been obtained. More recently, other crop species including orchids, daisies and yucca were reported to respond to silicon accumulation and plant growth/disease control. The culture solutions used for the hydroponic production of high-priced crops such as cucumbers and roses in many areas (The Netherlands for example) routinely included silicon, mainly for disease control. The biochemistry of silicon in plant cell walls, where most of it is located, is coming increasingly under scrutiny; the element may act as a crosslinking

element between carbohydrate polymers. There is an increased conviction among scientists that the time is at hand to stop treating silicon as a plant biological nonentity. The element exists, and it matters.

Silicon Polymers Aziz M. Muzafarov, 2010-09-22 Modern Synthetic and Application Aspects of Polysilanes: An Underestimated Class of Materials?, by A. Feigl, A. Bockholt, J. Weis, and B. Rieger; * Conjugated Organosilicon Materials for Organic Electronics and Photonics, by Sergei A. Ponomarenko and Stephan Kirchmeyer; * Polycarbosilanes Based on Silicon-Carbon Cyclic Monomers, by E.Sh. Finkelshtein, N.V. Ushakov, and M.L. Gringolts; * New Synthetic Strategies for Structured Silicones Using B(C₆F₅)₃, by Michael A. Brook, John B. Grande, and François Ganachaud; * Polyhedral Oligomeric Silsesquioxanes with Controlled Structure: Formation and Application in New Si-Based Polymer Systems, by Yusuke Kawakami, Yuriko Kakihana, Akio Miyazato, Seiji Tateyama, and Md. Asadul Hoque;

Properties of Silicon Carbide Gary Lynn Harris, 1995 This well structured and fully indexed book helps to understand and fully characterize the SiC system.

Sand and Silicon Denis McWhan, 2012-02-23 This is a story about sand and how science and silicon changed our lives. Over the last century, science taught us how to take this most common material and create the products on which we depend. It allows us to determine the atomic structure of materials and to grow novel, new materials atomic layer by atomic layer. The principles of thermodynamics are used to transform sand into ultra pure silicon. Quantum mechanics gave birth to the electronic age and the computer chip in which dopants are precisely placed in ultra pure silicon. The absorption and emission and reflection of quanta of light, photons, underlies solar cells, light emitting diodes, radiation detectors and optical fibers. This book follows the history of these

scientific discoveries and relates them to the products made from sand.

Electrochemistry of Silicon and Its Oxide Xiaoge Gregory Zhang, 2001-09-30 The importance of electrochemistry in silicon technology has spurred intense research activity in the last five decades, resulting in a tremendous amount of experimental data and theoretical formulations. This book is a compilation and digestion of this body of information with a comprehensive collection of concrete data on the electrochemical properties of silicon, thorough characterization and analysis of the diverse phenomena of silicon electrodes, and systematic integration of concepts and theories on the reaction mechanisms. Covering all the scientific aspects and engineering applications involved in the silicon/liquid interface, this large body of information will be highly valuable for the current and future progress of the silicon science and technology.

Advanced Silicon Materials for Photovoltaic Applications Sergio Pizzini, 2012-06-07 Today, the silicon feedstock for photovoltaic cells comes from processes which were originally developed for the microelectronic industry. It covers almost 90% of the photovoltaic market, with mass production volume at least one order of magnitude larger than those devoted to microelectronics. However, it is hard to imagine that this kind of feedstock (extremely pure but heavily penalized by its high energy cost) could remain the only source of silicon for a photovoltaic market which is in continuous expansion, and which has a cumulative growth rate in excess of 30% in the last few years. Even though reports suggest that the silicon share will slowly decrease in the next twenty years, finding a way to manufacture a specific solar grade feedstock in large quantities, at a low cost while maintaining the quality needed, still remains a crucial issue. Thin film and quantum confinement-based silicon cells might be a complementary solution. *Advanced Silicon Materials for Photovoltaic Applications* has been designed to describe the full potentialities of silicon as a multipurpose

material and covers: Physical, chemical and structural properties of silicon Production routes including the promise of low cost feedstock for PV applications Defect engineering and the role of impurities and defects Characterization techniques, and advanced analytical techniques for metallic and non-metallic impurities Thin film silicon and thin film solar cells Innovative quantum effects, and 3rd generation solar cells With contributions from internationally recognized authorities, this book gives a comprehensive analysis of the state-of-the-art of process technologies and material properties, essential for anyone interested in the application and development of photovoltaics.

The Silicon Cycle Venugopalan Ittekkot, Daniela Unger, Christoph Humborg, Nguyen Tac An, 2012-09-26 Silicon is among the most abundant elements on earth. It plays a key but largely unappreciated role in many biogeochemical processes, including those that regulate climate and undergird marine food webs. The Silicon Cycle is the first book in more than 20 years to present a comprehensive overview of the silicon cycle and issues associated with it. The book summarizes the major outcomes of the project Land-Ocean Interactions: Silica Cycle, initiated by the Scientific Community on Problems of the Environment (SCOPE) of the International Council of Scientific Unions (ICSU). It tracks the pathway of silicon from land to sea and discusses its biotic and abiotic modifications in transit as well as its cycling in the coastal seas. Natural geological processes in combination with atmospheric and hydrological processes are discussed, as well as human perturbations of the natural controls of the silicon cycle.

Heterostructures on Silicon: One Step Further with Silicon Y. Nissim, Emmanuel Rosencher, 2012-12-06 In the field of logic circuits in microelectronics, the leadership of silicon is now strongly established due to the achievement of its technology. Near unity yield of one million transistor chips on very large wafers (6 inches today, 8 inches tomorrow) are currently accomplished

in industry. The superiority of silicon over other material can be summarized as follow: - The Si/SiO₂ interface is the most perfect passivating interface ever obtained (less than 10⁻⁴ e⁻/cm² interface state density) - Silicon has a large thermal conductivity so that large crystals can be pulled. - Silicon is a hard material so that large wafers can be handled safely. - Silicon is thermally stable up to 1100°C so that numerous metallurgical operations (oxydation, diffusion, annealing ...) can be achieved safely. - There is profusion of silicon on earth so that the base silicon wafer is cheap. Unfortunately, there are fundamental limits that cannot be overcome in silicon due to material properties: laser action, infra-red detection, high mobility for instance. The development of new technologies of deposition and growth has opened new possibilities for silicon based structures. The well known properties of silicon can now be extended and properly used in mixed structures for areas such as opto-electronics, high-speed devices. This has been pioneered by the integration of a GaAs light emitting diode on a silicon based structure by an MIT group in 1985.

Silicon Materials Science and Technology, 1998

High Purity Silicon 9 Cor L. Claeys, 2006 This issue discusses the latest developments in the growth, characterization, device processing and applications of high-purity silicon in either bulk or epitaxial form. Information is given on the control and prevention of impurity incorporation, characterization and detection of defects and impurity states. Device and circuit aspects are also covered. Advanced substrates such as SOI, strained Si and germanium-on-insulator are discussed.

Silicon Chemical Etching J. Grabmaier, 2012-12-06 In the first contribution to this volume we read that the world-wide production of single crystal silicon amounts to some 2000 metric tons per year. Given the size of present-day silicon-crystals, this number is equivalent to 100000 silicon-crystals grown every year by either the Czochralski (80%) or the floating-zone (20%) technique. But,

to the best of my knowledge, no coherent and comprehensive article has been written that deals with the art and science, as well as the practical and technical aspects of growing silicon crystals by the Czochralski technique. The same could be said about the floating-zone technique were it not for the review article by W. Dietze, W. Keller and A. Miihlbauer which was published in the preceding Volume 5 (Silicon) of this series (and for a monograph by two of the above authors published about the same time). As editor of this volume I am very glad to have succeeded in persuading two scientists, W. Zulehner and D. Huber, of Wacker-Chemitronic GmbH - the world's largest producer of silicon-crystals - to write a comprehensive article about the practical and scientific aspects of growing silicon-crystals by the Czochralski method and about silicon wafer manufacture. I am sure that many scientists or engineers who work with silicon crystals -be it in the laboratory or in a production environment - will profit from the first article in this volume.

Oxygen in Silicon ,1994-08-15 This volume reviews the latest understanding of the behavior and roles of oxygen in silicon, which will carry the field into the ULSI era from the experimental and theoretical points of view. The fourteen chapters, written by recognized authorities representing industrial and academic institutions, cover thoroughly the oxygen related phenomena from the crystal growth to device fabrication processes, as well as indispensable diagnostic techniques for oxygen. Comprehensive study of the behavior of oxygen in silicon Discusses silicon crystals for VLSI and ULSI applications Thorough coverage from crystal growth to device fabrication Edited by technical experts in the field Written by recognized authorities from industrial and academic institutions Useful to graduate students, scientists in other disciplines, and active participants in the arena of silicon-based microelectronics research 297 original line drawings

Porous Silicon: From Formation to Application: Formation and Properties, Volume One Ghenadii

Korotcenkov,2016-04-21 Porous silicon is rapidly attracting increasing interest in various fields, including optoelectronics, microelectronics, photonics, medicine, chemistry, biosensing, and energy. Porous Silicon: Formation and Properties fills a gap in the literature of the field today, providing a thorough introduction to current knowledge of the formation, processing, and properties of porous silicon. It also analyzes present and potential applications of porous silicon in technology, including various devices. With contributions from an international team of well-known experts, this book presents the most recent progress in the field of porous silicon. Focused chapters cover the fundamentals of silicon porosification, the qualities of porous silicon, including its electrical, luminescent, optical, and thermal properties, and the processing of porous silicon for use in the technology of other fields. It also gives valuable insights on what can be expected from the field in the near future. The book includes extensive references to recently published literature on the subject, allowing for deeper exploration of information on the porosification process, designing porous silicon-based technology, and improving performance of devices fabricated using porous silicon. It is an indispensable addition to the library of any scientist or technician involved or interested in the research, development, and application of porous silicon.

Functional Molecular Silicon Compounds I David Scheschkewitz,2014-07-08 The series Structure and Bonding publishes critical reviews on topics of research concerned with chemical structure and bonding. The scope of the series spans the entire Periodic Table and addresses structure and bonding issues associated with all of the elements. It also focuses attention on new and developing areas of modern structural and theoretical chemistry such as nanostructures, molecular electronics, designed molecular solids, surfaces, metal clusters and supramolecular structures. Physical and spectroscopic techniques used to determine, examine and model structures

fall within the purview of Structure and Bonding to the extent that the focus is on the scientific results obtained and not on specialist information concerning the techniques themselves. Issues associated with the development of bonding models and generalizations that illuminate the reactivity pathways and rates of chemical processes are also relevant. The individual volumes in the series are thematic. The goal of each volume is to give the reader, whether at a university or in industry, a comprehensive overview of an area where new insights are emerging that are of interest to a larger scientific audience. Thus each review within the volume critically surveys one aspect of that topic and places it within the context of the volume as a whole. The most significant developments of the last 5 to 10 years should be presented using selected examples to illustrate the principles discussed. A description of the physical basis of the experimental techniques that have been used to provide the primary data may also be appropriate, if it has not been covered in detail elsewhere. The coverage need not be exhaustive in data, but should rather be conceptual, concentrating on the new principles being developed that will allow the reader, who is not a specialist in the area covered, to understand the data presented. Discussion of possible future research directions in the area is welcomed. Review articles for the individual volumes are invited by the volume editors. Readership: research scientists at universities or in industry, graduate students

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