

# Polycrystalline and Spatially Non-Homogeneous Amorphous Semiconductors and Insulators

Valeri Ligatchev

# Polycrystalline Semiconductors

**S. Pizzini, H.P. Strunk, J.H. Werner**



## **Polycrystalline Semiconductors:**

**Polycrystalline Semiconductors** Hans J. Möller, Horst P. Strunk, Jürgen H. Werner, 2012-12-06 This book summarizes the most recent aspects of polycrystalline semiconductors as presented at the conference Polycrystalline Semiconductors Grain Boundaries and Interfaces It contains 12 review articles on selected topics written by experts in their fields and 41 complementary contributed papers The structure chemistry and physics of grain boundaries and other interfaces are experimentally and theoretically studied Aspects of the technologically important polycrystalline silicon are discussed in detail Also covered are other polycrystalline semiconductors germanium and compound semiconductors that are currently of interest in fundamental research and in the technology of solar cells and thin film devices Anyone interested in polycrystalline semiconductors will be able to use this comprehensive collection to advantage It also suggests directions for new research and development

**Polycrystalline Semiconductors IV** S. Pizzini, H.P. Strunk, J.H. Werner, 1996-05-23 Physics Chemistry and Technology Proceedings of the 4th International Conference on Polycrystalline Semiconductors Physics Chemistry and Technology POLYSE 95 Gargnano Italy September 1995

*The Story of Semiconductors* John W. Orton, 2008-12-11 The book provides an overview of the fascinating spectrum of semiconductor physics devices and applications presented from a historical perspective It covers the development of the subject from its inception in the early nineteenth century to the recent millennium Written in a lively informal style it emphasizes the interaction between pure scientific push and commercial pull on the one hand and between basic physics materials and devices on the other It also sets the various device developments in the context of systems requirements and explains how such developments met wide ranging consumer demands It is written so as to appeal to students at all levels in physics electrical engineering and materials science to teachers lecturers and professionals working in the field as well as to a non specialist scientific readership

Polycrystalline Semiconductors VII Takashi Fuyuki, 2003 This book comprises the over 100 contributions that were presented at the International Conference on Polycrystalline Semiconductors which took place from September 10 to 13 2002 in Nara Japan

The Physics of Semiconductors Marius Grundmann, 2010-11-11

Semiconductor electronics is common place in every household Semiconductor devices have also enabled economically reasonable based optical communication optical storage and high frequency amplification and have recently revolutionized photography display technology and lighting Along with these tremendous technological developments semiconductors have changed the way we work communicate entertain and think The technological progress of semiconductor materials and devices is evolving continuously with a large worldwide effort in human and monetary capital For students semiconductors offer a rich diverse and exciting field with a great tradition and a bright future This book introduces students to semiconductor physics and semiconductor devices It brings them to the point where they can specialize and enter supervised laboratory research

It is based on the two semester semiconductor physics course taught at Universität Leipzig in its Master of Science physics

curriculum Since the book can be followed with little or no pre existing knowledge in solid state physics and quantum mechanics it is also suitable for undergraduate students For the interested reader some additional topics are included in the book that can be covered in subsequent more specialized courses The material is selected to provide a balance between aspects of solid state and semiconductor physics the concepts of various semiconductor devices and modern applications in electronics and photonics

**Polycrystalline Semiconductors VI** O. Bonnaud, 2001 This book comprises the contributions to the sixth conference on polycrystalline semiconductors POLYSE The conference covered many aspects of polycrystalline semiconductors but was more applications oriented than on previous occasions thereby reflecting the rapid evolution of these technologies POLYSE 2000 brought together research specialists from basic research as well as from research development engineering all of whom are working on devices such as thin film transistors micro electromechanical systems or sensors and actuators In particular ten internationally recognized scientists J Morante S P richon M Konagai S Wagner R Hagenbeck D A Bonnell G Horowitz T Fuyuki J Kocka and V Chuwere were invited to review their work on several interesting and promising aspects of the subject such as micro systems solar cells thin film transistors organic polycrystalline devices and polycrystalline ceramics

**Elementary Semiconductor Device Physics** Kazuya Masu, Shuhei Amakawa, 2024-10-31 This book by two leading experts on integrated circuit design adopts an untraditional approach to introducing semiconductor devices to beginners The authors use circuit theory to provide a digestible explanation of energy band theory and understanding of energy band diagrams After briefly summarizing the basics of semiconductors the authors describe semiconductor devices from a circuit theoretic point of view making the book especially suitable for circuit design students and engineers Further to the emphasis on the circuit perspective the book then uses circuit theory to introduce readers to the famously indigestible energy bands of crystalline solids Additionally the book explains how to read physics from energy band diagrams of semiconductor devices in great detail The key to appreciating the real power of energy band diagrams is shown to lie in the understanding of the concept of the quasi Fermi levels introduced in 1949 by William Shockley but remaining elusive to date and therefore often omitted from energy band diagrams To rectify this some of the energy band diagrams presented in this book complete with quasi Fermi levels were drawn using a device simulator a k a technology computer aided design TCAD offering quantitative information about device physics The book could therefore also serve as a hands on course text in TCAD drawn band diagram reading Because no prior exposure to quantum mechanics is required and the book does not attempt to teach it this book is ideal for students in various disciplines who may or may not be specializing in semiconductor devices The numerous practical examples of reading TCAD based energy band diagrams are also invaluable to practicing semiconductor device engineers

**Polycrystalline Semiconductors III** Horst P. Strunk, J.H. Werner, B. Fortin, O. Bonnaud, 1994-03-10 Physics and Technology Proceedings of the 3rd International Conference on Polycrystalline Semiconductors held in Saint Malo France September 1993

Physics Of Semiconductors, The - Proceedings Of The 22nd

International Conference (In 3 Volumes) David J Lockwood,1995-01-20 These proceedings review the progress in most aspects of semiconductor physics including those related to materials processing and devices The conference continues the tradition of the ICPS series and these volumes include state of the art lectures The plenary and invited papers address areas of major interest These volumes will serve as excellent material for researchers in semiconductor physics and related fields

**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 *Physical Chemistry of Semiconductor Materials and Processes*,2015-08-17 The development of solid state devices began a little more than a century ago with the discovery of the electrical conductivity of ionic solids Today solid state technologies form the background of the society in which we live The aim of this book is threefold to present the background physical chemistry on which the technology of semiconductor devices is based secondly to describe specific issues such as the role of defects on the properties of solids and the crucial influence of surface properties and ultimately to look at the physics and chemistry of semiconductor growth processes both at the bulk and thin film level together with some issues relating to the properties of nano devices Divided into five chapters it covers Thermodynamics of solids including phases and their properties and structural order Point defects in semiconductors Extended defects in semiconductors and their interactions with point defects and impurities Growth of semiconductor materials Physical chemistry of semiconductor materials processing With applications across all solid state technologies the book is useful for advanced students and researchers in materials science physics chemistry electrical and electronic engineering It is also useful for those in the semiconductor industry Polycrystalline Semiconductors V J.H. Werner,Horst P. Strunk,H.W. Schock,1999-04-23 Bulk Materials Thin Films and Devices Proceedings of the Fifth International Conference on Polycrystalline Semiconductors V held in Schw bisch Gm nd Germany September 13 18 1998 **Thin Film Transistors: Polycrystalline silicon thin film transistors** Yue Kuo,2004 This is the first reference on amorphous silicon and polycrystalline silicon thin film transistors that gives a systematic global review of all major topics in the field These volumes include sections on basic materials and substrates properties fundamental device physics critical fabrication processes structures a Si H dielectric metallization catalytic CVD and existing and new applications The chapters are written by leading researchers who have extensive experience with reputed track records Thin Film Transistors provides practical information on preparing individual functional a Si H TFTs and poly Si TFTs as well as large area TFT arrays Also covered are basic theories on the a Si H TFT operations and unique material characteristics Readers are also exposed to a wide range of existing and new applications in industries *Physics of Semiconductor Devices* K. N. Bhat,A. Dasgupta,2004 Contributed

papers of the workshop held at IIT Madras in 2003      Capacitance Spectroscopy of Semiconductors Jian V. Li, Giorgio Ferrari, 2018-07-06 Capacitance spectroscopy refers to techniques for characterizing the electrical properties of semiconductor materials junctions and interfaces all from the dependence of device capacitance on frequency time temperature and electric potential This book includes 15 chapters written by world recognized leading experts in the field academia national institutions and industry divided into four sections Physics Instrumentation Applications and Emerging Techniques The first section establishes the fundamental framework relating capacitance and its allied concepts of conductance admittance and impedance to the electrical and optical properties of semiconductors The second section reviews the electronic principles of capacitance measurements used by commercial products as well as custom apparatus The third section details the implementation in various scientific fields and industries such as photovoltaics and electronic and optoelectronic devices The last section presents the latest advances in capacitance based electrical characterization aimed at reaching nanometer scale resolution      Semiconductors and the Information Revolution John W. Orton, 2009-06-17 Semiconductors and the Information Revolution sets out to explain the development of modern electronic systems and devices from the viewpoint of the semiconductor materials germanium silicon gallium arsenide and many others which made them possible It covers the scientific understanding of these materials and its intimate relationship with their technology and many applications It began with Michael Faraday took off in a big way with the invention of the transistor at Bell Labs in 1947 and is still burgeoning today It is a story to match any artistic or engineering achievement of man and this is the first time it has been presented in a style suited to the non specialist It is written in a lively non mathematical style which brings out the excitement of discovery and the fascinating interplay between the demands of system pull and technological push It also looks at the nature of some of the personal interactions which helped to shape the modern technological world An introductory chapter illustrates just how dependent we are on modern electronic systems and explains the significance of semiconductors in their development It also provides in as painless a way as possible a necessary understanding of semiconductor properties in relation to these applications The second chapter takes up the historical account and ends with some important results emerging from the Second World War including its effect on the organisation of scientific research Chapter three describes the world shaking discovery of the transistor and some of the early struggles to make it commercially viable including the marketing of the first transistor radio In chapter four we meet the integrated circuit which gave shape to much of our modern life in the form of the personal computer and which gave rise to a famously long running patent war Later chapters cover the application of compound semiconductors to light emitting devices such as LEDs and lasers and light detecting devices such as photocells We learn how these developments led to the invention of the CD player and DVD recorder how other materials were applied to the development of sophisticated night vision equipment fibre optical communications systems solar photovoltaic panels and flat panel displays Similarly microwave techniques essential to our

modern day love of mobile phoning are seen to depend on clever materials scientists who not for the first time invented new semiconductors with just the right properties Altogether it is an amazing story and one which deserves to be more widely known Read this book and you will be rewarded with a much deeper understanding and appreciation of the technological revolution which shapes so many aspects of our lives A historical account of the development of semiconductor physics devices and applications from the nineteenth century to the present day Coverage of the importance of material quality and its relation to the physics of the devices Presented in a strictly non mathematical and anecdotal way to appeal to a wide audience Provides the broad sweep of science history **II-vi Semiconductor Compounds** Mukesh Jain,1993-05-04

Contents X Ray Characterisation of II VI Semiconductor Materials D Gao et al Electronic Structure of II VI Semiconductors and Their Alloys S H Wei Radiative Recombination Processes in Rare Earth Doped II VI Materials M Godlewski et al Nonlinear Optical Properties of Heavily Doped CdS U Neukirch Nanostructures of Broad Gap II Mn VI Semiconductors W Heimbrodt O Goede Co Based II VI Semimagnetic Semiconductors A Twardowski et al Photoluminescence and Raman Scattering of ZnSe ZnTe Strained Layer Superlattices K Kumazaki Novel Electronic Processes in Mercury Based Superlattices J R Meyer et al Strain Pressure and Piezoelectric Effects in Strained II VI Superlattices and Heterostructures E Anastassakia Electronic Structures of Strained II VI Superlattices T Nakayama Devices and Applications of II VI Compounds S Colak Solar Cells Based on II VI Semiconductors H Uda ZnSe and Its Applications for Blue Light Laser Diodes M Pessa D Ahn Molecular Beam Epitaxy of HgCdTe for Electro Optical Infrared Applications J M A Cort s and other papers Readership Condensed matter physicists and electronic engineers keywords **Hydrogen in Semiconductors** M. Stutzmann,J. Chevallier,2012-12-02 Hydrogen on semiconductor surfaces has been an area of considerable activity over the last two decades Structural thermal and dynamical properties of hydrogen chemisorbed on crystalline silicon and other semiconductors have been studied in great detail These properties serve as a reference for related but more complex systems such as hydrogen at multiple vacancies in crystalline semiconductors or at microvoids in amorphous samples Interesting from a surface physics point of view is the fact that hydrogen as a monovalent element is an ideal terminator for unsaturated bonds on surfaces and therefore tends to have a large influence on surface reconstruction A related phenomenon with large technological impact for example in low cost solar cells is the passivation of grain boundaries in microcrystalline semiconductors Finally hydrogenated semiconductor surfaces always appear as a boundary layer during low energy hydrogenation of bulk semiconductors so that a complete description of hydrogen uptake or desorption necessarily has to take these surfaces into account This collection of invited and contributed papers has been carefully balanced to deal with amorphous and crystalline semiconductors and surfaces and presents basic and experimental work basic and applied as well as theory The resulting volume presents a summary of the state of the art in the field of hydrogen in semiconductors and will hopefully stimulate future work in this area **Physics Of Semiconductor Devices - Proceedings Of The Fourth**

**International Workshop** S Radhakrishna, S C Jain, 1987-12-01 This volume compiles the papers presented at the conference which cover the various facets of semiconductor research with emphasis on microelectronics VLSI and special aspects related to semiconductor applications There are four sections Microelectronics Materials Photovoltaics and Gallium Arsenide Devices

*Extended Defects in Semiconductors* D. B. Holt, B. G. Yacobi, 2007-04-12 The elucidation of the effects of structurally extended defects on electronic properties of materials is especially important in view of the current advances in electronic device development that involve defect control and engineering at the nanometer level This book surveys the properties effects roles and characterization of extended defects in semiconductors The basic properties of extended defects dislocations stacking faults grain boundaries and precipitates are outlined and their effect on the electronic properties of semiconductors their role in semiconductor devices and techniques for their characterization are discussed These topics are among the central issues in the investigation and applications of semiconductors and in the operation of semiconductor devices The authors preface their treatment with an introduction to semiconductor materials and conclude with a chapter on point defect maldistributions This text is suitable for advanced undergraduate and graduate students in materials science and engineering and for those studying semiconductor physics



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