



Metallization and Metal-Semiconductor Interfaces

Edited by
Inder P. Batra

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Metallization And Metal Semiconductor Interfaces

Johann-Friedrich Luy, Peter Russer



Metallization And Metal Semiconductor Interfaces:

Metallization and Metal-Semiconductor Interfaces Inder P. Batra, 2012-12-06 This book represents the work presented at a NATO Advanced Research Workshop on Metallization and Metal Semiconductor Interfaces held at the Technical University of Munich Garching W Germany from 22-26 August 1988. The major focus of the workshop was to evaluate critically the progress made in the area of metal semiconductor interfaces. The underlying theme was the mechanism of Schottky barrier formation and a serious assessment of the various models. A significant fraction of the workshop time was also spent in discussing the interaction of alkali metals with semiconductors. Alkali metals on semiconductors form ordered overlayers and the resulting system often exhibits one-dimensional metallic properties. The nature of their interaction has introduced new and exciting complexities and this was pursued at length during the lively discussions at the workshop. A half a day was devoted to Scanning Tunneling Microscopy, the emphasis being on its utility in providing structural and electronic character of low coverage regime. The book should provide readers with the most current status of the research activity in the general area of metal semiconductor interfaces at an international level. It should also serve as an excellent introduction to the field since sufficient review type of material has also been included. The workshop organizers: Dr I P Batra, Director, MM Almaden Research Center, San Jose; Prof S Ciraci, Bilkent University, Ankara; Prof C Y Pong, University of California, Davis; Prof Dr F Koch, Local Chairman, Technical University, Munich Garching; Dr H. *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 Jlich 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. *An Essential Guide to Electronic Material Surfaces and Interfaces* Leonard J. Brillson, 2016-08-01 *An Essential Guide to Electronic Material Surfaces and Interfaces* is a streamlined yet comprehensive introduction that covers the basic physical properties of electronic materials, the experimental techniques used to measure them and the theoretical methods used to understand, predict and design them. Starting with the fundamental electronic properties of semiconductors and electrical measurements of semiconductor interfaces, this text introduces students to the importance of characterizing and controlling macroscopic electrical properties by atomic scale techniques. The chapters that follow present the full range of surface and interface techniques now being used to

characterize electronic optical chemical and structural properties of electronic materials including semiconductors insulators nanostructures and organics The essential physics and chemistry underlying each technique is described in sufficient depth for students to master the fundamental principles with numerous examples to illustrate the strengths and limitations for specific applications As well as references to the most authoritative sources for broader discussions the text includes internet links to additional examples mathematical derivations tables and literature references for the advanced student as well as professionals in these fields This textbook fills a gap in the existing literature for an entry level course that provides the physical properties experimental techniques and theoretical methods essential for students and professionals to understand and participate in solid state electronics physics and materials science research

An Essential Guide to Electronic Material Surfaces and Interfaces is an introductory to intermediate level textbook suitable for students of physics electrical engineering materials science and other disciplines It is essential reading for any student or professional engaged in surface and interface research semiconductor processing or electronic device design

Silicon-Based Millimeter-Wave Devices Johann-Friedrich Luy, Peter Russer, 2013-03-07 Silicon Based Millimeter Wave Devices describes field theoretical methods for the design and analysis of planar waveguide structures and antennas The principles and limitations of transit time devices with different injection mechanisms are discussed as are aspects of fabrication and characterization The physical properties of silicon Schottky contacts and diodes are treated in a separate chapter Two chapters cover the silicon germanium devices physics and RF properties of the heterobipolar transistor and quantum effect devices such as the resonant tunneling element are described The integration of devices in monolithic circuits is explained and advanced technologies are presented along with the self mixing oscillator operation Finally sensor and system applications are considered

Semiconductors and Semimetals, 1993-06-07 Semiconductors and Semimetals

Advanced Metallization and Processing for Semiconductor Devices and Circuits - II: Volume 260 Avishay Katz, 1992-10-28 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners

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

Ohmic Contacts to Semiconductors Electrochemical Society,1969

Proceedings of the Symposium on Thin Film Interfaces and Interactions John E. E. Baglin,J. M. Poate,1980

Electrochemistry at Metal and Semiconductor Electrodes Norio Sato,1998-10-09

Electrochemistry at Metal and Semiconductor Electrodes covers the structure of the electrical double layer and charge transfer reactions across the electrode electrolyte interface The purpose of the book is to integrate modern electrochemistry and semiconductor physics thereby providing a quantitative basis for understanding electrochemistry at metal and semiconductor electrodes Electrons and ions are the principal particles which play the main role in electrochemistry This text therefore emphasizes the energy level concepts of electrons and ions rather than the phenomenological thermodynamic and kinetic concepts on which most of the classical electrochemistry texts are based This rationalization of the phenomenological concepts in terms of the physics of semiconductors should enable readers to develop more atomistic and quantitative insights into processes that occur at electrodes The book incorporates many traditional disciplines of science and engineering such as interfacial chemistry biochemistry enzyme chemistry membrane chemistry metallurgy modification of solid interfaces and materials corrosion The text is intended to serve as an introduction for the study of advanced electrochemistry at electrodes and is aimed towards graduates and senior undergraduates studying materials and interfacial chemistry or those beginning research work in the field of electrochemistry

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

Electricity from Photovoltaic Solar Cells: Process development ,1986

III-V Nitride Semiconductors Edward T. Yu,2022-10-30

The concepts in this book will provide a comprehensive overview of the current state for a broad range of nitride semiconductor devices as well as a detailed introduction to selected materials and processing issues of general relevance for these applications This compilation is very timely given the level of interest and the current stage of research in nitride semiconductor materials and device applications This volume consists of chapters written by a number of leading researchers in nitride materials and device technology addressing Ohmic and Schottky contacts AlGaInN multiple quantum well laser diodes nitride vertical cavity emitting lasers and ultraviolet photodetectors This unique volume provides a comprehensive review and introduction to application and devices based on GaN and related compounds for newcomers to the field and stimulus to further advances for experienced researchers

VLSI Metallization Krishna Shenai,1991

This comprehensive collection of reprinted

articles presents the most important developments on VLSI contact and interconnect technologies and applications The book covers important developments in metallization of compound semiconductor technologies and includes a section on metallization reliability and high speed testing

Cluster Models for Surface and Bulk Phenomena Gianfranco Pacchioni, Paul S. Bagus, Fulvio Parmigiani, 2013-03-08 It is widely recognized that an understanding of the physical and chemical properties of clusters will give a great deal of important information relevant to surface and bulk properties of condensed matter This relevance of clusters for condensed matter is one of the major motivations for the study of atomic and molecular clusters The changes of properties with cluster size from small clusters containing only a few atoms to large clusters containing tens of thousands of atoms provides a unique way to understand and to control the development of bulk properties as separated units are brought together to form an extended system Another important use of clusters is as theoretical models of surfaces and bulk materials The electronic wavefunctions for these cluster models have special advantages for understanding in particular the local properties of condensed matter The cluster wavefunctions obtained with molecular orbital theory make it possible to relate chemical concepts developed to describe chemical bonds in molecules to the very closely related chemical bonding at the surface and in the bulk of condensed matter The applications of clusters to phenomena in condensed matter is a cross disciplinary activity which requires the interaction and collaboration of researchers in traditionally separate areas For example it is necessary to bring together workers whose background and expertise is molecular chemistry with those whose background is solid state physics It is also necessary to bring together experimentalists and theoreticians

Ordering at Surfaces and Interfaces Akio Yoshimori, Teruya Shinjo, Hisatsune Watanabe, 2012-12-06 This volume contains the proceedings of the third in a series of biennial NEC Symposia on Fundamental Approaches to New Material Phases sponsored by the NEC Corporation Tokyo Japan The symposium was held from October 7 to 11 1990 at the Hakone Kanko H9tel in Hakone About 40 invited participants stayed together became involved in intense discussions and freely exchanged ideas both in and out of the conference room which faced Mt Fuji the beautiful lake Ashinoko and the quiet landscape in the old crater The title of this volume Ordering at Surfaces and Interfaces which was also the title of the third symposium describes the aim of the symposium to discuss ordering properties and their underlying mechanisms at surfaces and interfaces The topics treated include the reconstruction of surfaces of semiconductors and metals atomic and magnetic ordering at interfaces theoretical tools to study or dering mechanisms at surfaces and interfaces ordering in adsorbate surface sys tems such as alkali adsorbed silicon surfaces electric current effects on semicon ductor surfaces and many related STM scanning tunneling microscopy results

Condensed Matter Physics Hari Prakash (of Physics Dept., Allahabad University.), 1999 Contributed seminar papers *Surface Physics And Related Topics: Festschrift For Xie Xide* Dong Lu, Xun Wang, Fujia Yang, K M Zhang, G-j Ni, 1991-03-26 This book is to mark the seventieth birthday of Prof Xie Xide Hsieh Hsi Teh a woman scientist well known in Surface Science in China This Festschrift

contains contributions from well known experts who review the progress in surface physics as well as delve into the latest developments in the frontiers of surface physics research *Physics Of Semiconductors, The - Proceedings Of The Xxi International Conference (In 2 Volumes)* Ping Jiang,Hou-zhi Zheng,1993-03-31 The 21st conference proceedings continue the tradition of the ICPS series The proceedings cover all aspects of semiconductor physics including those related to materials processing and devices Plenary and invited speakers address areas of major interest **Proceedings of the Second International Symposium on Electrochemical Microfabrication** Keith Sheppard,John O. Dukovic,1995

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