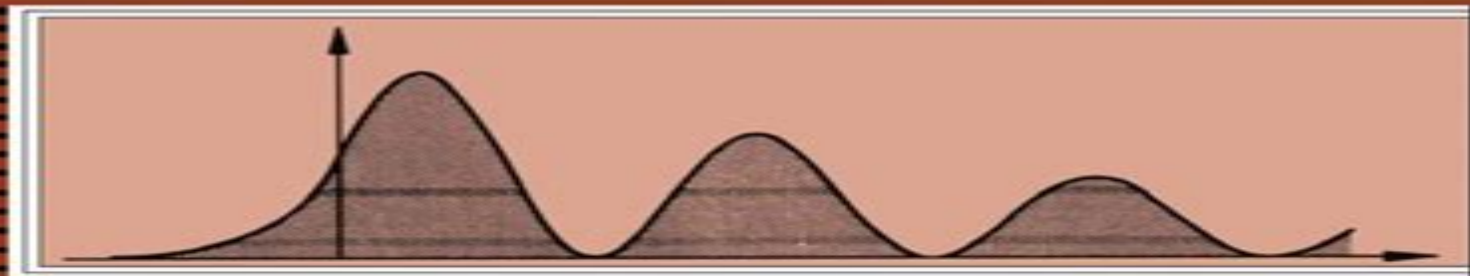


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**Winfried Mönch**

# **Semiconductor Surfaces and Interfaces**



**Second Edition**

**Springer**

# Semiconductor Surfaces And Interfaces

**Carl Wilmsen**



## **Semiconductor Surfaces And Interfaces:**

Semiconductor Surfaces and Interfaces Winfried Mönch, 2013-03-09 Semiconductor Surfaces and Interfaces deals with structural and electronic properties of semiconductor surfaces and interfaces The first part introduces to the general aspects of space charge layers of clean surface and adatom induced surface states and of interface states It is followed by a presentation of experimental results on clean and adatom covered surfaces which are explained in terms of simple physical and chemical concepts and models Where available results of more refined calculations are considered A final chapter is devoted to the band lineup at semiconductor interfaces

*Semiconductor Surfaces and Interfaces* Winfried Mönch, 2013-03-09 Semiconductor Surfaces and Interfaces deals with structural and electronic properties of semiconductor surfaces and interfaces The first part introduces the general aspects of space charge layers of clean surface and adatom induced surfaces states and of interface states It is followed by a presentation of experimental results on clean and adatom covered surfaces which are explained in terms of simple physical and chemical concepts Where available results of more refined calculations are considered This third edition has been thoroughly revised and updated In particular it now includes an extensive discussion of the band lineup at semiconductor interfaces The unifying concept is the continuum of interface induced gap states

**Semiconductor Surfaces and Interfaces** Winfried Monch, 2014-01-15 *Physics of Semiconductor Surfaces and Interfaces* Minko Balkanski, C. A. Sébenne, 1980 **Study and Characterization of Semiconductor Surfaces and Interfaces** John David Langan, 1979 **Surfaces and Interfaces of Electronic Materials** Leonard J.

Brillson, 2010-04-26 An advanced level textbook covering geometric chemical and electronic structure of electronic materials and their applications to devices based on semiconductor surfaces metal semiconductor interfaces and semiconductor heterojunctions Starting with the fundamentals of electrical measurements on semiconductor interfaces it then describes the importance of controlling macroscopic electrical properties by atomic scale techniques Subsequent chapters present the wide range of surface and interface techniques available 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 with references to the most authoritative sources for more exhaustive discussions while numerous examples are provided throughout to illustrate the applications of each technique With its general reading lists extensive citations to the text and problem sets appended to all chapters this is ideal for students of electrical engineering physics and materials science It equally serves as a reference for physicists material science and electrical and electronic engineers involved in surface and interface science semiconductor processing and device modeling and design This is a coproduction of Wiley and IEEE Free solutions manual available for lecturers at [www.wiley-vch.de](http://www.wiley-vch.de) supplements Semiconductor Surfaces and Interfaces Rolf Enderlein, Friedhelm Bechstedt, 1989-01-14

Solid Surfaces, Interfaces and Thin Films Hans Lüth, 2010-09-02 Solid Surfaces Interfaces and Thin Films examines both

experimental and theoretical aspects of surface interface and thin film physics Coverage of magnetic thin films has been expanded and now includes giant magnetoresistance and the spin transfer torque mechanism

*Some Dynamic Electronic Properties of Semiconductor Surfaces and Interfaces [microform]* Kallin, Catherine, 1984

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

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Electronic and Structural Properties of Semiconductor Surfaces and Interfaces Steven Hinckley, 1985

**Nondestructive Characterization of Semiconductor Surfaces and Interfaces** Bijan Davari, 1984

*Control of Semiconductor Surfaces and Interfaces: Volume 448* S. K. Brierley, J. M. Gibson, O. J. Glemboki, S. M. Prokes, J. M. Woodall, 1997-07-15

Semiconductor surfaces and interfaces play a vital role in modern day electronic devices This is especially true as device dimensions shrink The properties of clean surfaces and chemically processed surfaces can also have a significant impact on the properties of subsequently grown layers These surfaces and interfaces may exhibit modified structural electronic and optical properties so it is important to understand their effects on subsequent growth processing and device fabrication Topics in the book include structure of surfaces control of surface defects and properties through chemical etching and passivation modification of surfaces for growth and processing nucleation on semiconductor surfaces and self assembly the effects of surfaces and interfaces on subsequent growth and the properties of semiconductor dielectric and semiconductor metal interfaces In situ and ex situ

monitoring of these properties using various electrical and optical techniques are also presented

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

**Control of Semiconductor Surfaces and Interfaces**, 1997 The Physics of Semiconductor Surfaces and Interfaces European Physical Society, **Surfaces and Interfaces: Physics and Electronics** R.S. Bauer, 2012-12-02 Surfaces and Interfaces Physics and Electronics covers the proceedings of the second Trieste ICTP IUPAP Semiconductor Symposium conducted at the International Center for Theoretical Physics in Trieste Italy on August 30 to September 3 1982 The book focuses on the processes methodologies reactions and approaches involved in semiconductor physics The selection first elaborates on the electronic properties and surface geometry of GaAs and ZnO surfaces electronic structure of Si III surfaces and photoemission studies of surface states on Si III 2X1 Discussions focus on consistency of different experiments relating experiments to a theoretical model quenching of surface states by hydrogen inverse photoemission results and basic data and models of the low index ZnO surfaces The text then examines Si III 2X1 studies by angle resolved photoemission electronic surface states at steps in Si III 2X1 and a novel method for the study of optical properties of surfaces The manuscript takes a look at spot profile analysis LEED of defects at silicon surfaces chemisorption induced defects at interfaces on compound semiconductors and surface defects on semiconductors The microscopic properties and behavior of silicide interfaces recombination at semiconductor surfaces and interfaces and dipoles defects and interfaces are also discussed The selection is a highly recommended source of data for physicists and readers wanting to study semiconductor physics

Physics and Chemistry of III-V Compound Semiconductor Interfaces Carl Wilmsen, 2013-06-29 The application of

the 111 V compound semiconductors to device fabrication has grown considerably in the last few years. This process has been stimulated in part by the advancement in the understanding of the interface physics and chemistry of the III V s. The literature on this subject is spread over the last 15 years and appears in many journals and conference proceedings. Understanding this literature requires considerable effort by the seasoned researcher and even more for those starting out in the field or by engineers and scientists who wish to apply this knowledge to the fabrication of devices. The purpose of this book is to bring together much of the fundamental and practical knowledge on the physics and chemistry of the 111 V compounds with metals and dielectrics. The authors of this book have endeavored to provide concise overviews of these areas with many tables and graphs which compare and summarize the literature. In this way the book serves as both an insightful treatise on III V interfaces and a handy reference to the literature. The selection of authors was mandated by the desire to include both fundamental and practical approaches covering device and material aspects of the interfaces. All of the authors are recognized experts on III V interfaces and each has worked for many years in his subject area. This experience is projected in the breadth of understanding in each chapter.

Physics of Semiconductor Surfaces and Interfaces Minko Balkanski, 1980

**Electronic Structure of Semiconductor Interfaces** Winfried Mönch, 2024-06-14

This concise volume examines the characteristic electronic parameters of semiconductor interfaces namely the barrier heights of metal semiconductor or Schottky contacts and the valence band discontinuities of semiconductor semiconductor interfaces or heterostructures. Both are determined by the same concept namely the wave function tails of electron states overlapping a semiconductor band gap directly at the interface. These interface induced gap states (IFGS) result from the complex band structure of the corresponding semiconductor. The IFGS are characterized by two parameters namely by their branch point at which their charge character changes from predominantly valence band to conduction band like and secondly by the proportionality factor or slope parameter of the corresponding electric dipole term which varies in proportion to the difference in the electronegativities of the two solids forming the interface. This IFGS and electronegativity concept consistently and quantitatively explains the experimentally observed barrier heights of Schottky contacts as well as the valence band offsets of heterostructures. Insulators are treated as wide band gap semiconductors.

## Adopting the Melody of Appearance: An Psychological Symphony within **Semiconductor Surfaces And Interfaces**

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