



# Dyeseininconductor Interfaces

**B. Lengeler**



## **Dyeseiconductor Interfaces:**

*Semiconductor Interfaces, Microstructures and Devices* Zhe Chuan Feng, 1993-01-01 A semiconductor interface is the contact between the semiconductor itself and a metal. The interface is a site of change and it is imperative to ensure that the semiconducting material is sealed at this point to maintain its reliability. This book examines various aspects of interfaces showing how they can affect microstructures and devices such as infrared photodetectors as used in nightsights and blue diode lasers. It presents various techniques for examining different types of semiconductor material and suggests future potential commercial applications for different semiconductor devices. Written by experts in their fields and focusing on metallic semiconductors Cadmium Telluride and related compounds this comprehensive overview of recent developments is an essential reference for those working in the semiconductor industry and provides a concise and comprehensive introduction to those new to the field. [Electronic Properties of Semiconductor Interfaces](#) Winfried Mönch, 2013-04-17

Almost all semiconductor devices contain metal semiconductor insulator semiconductor insulator metal and or semiconductor semiconductor interfaces and their electronic properties determine the device characteristics. This is the first monograph that treats the electronic properties of all different types of semiconductor interfaces. Using the continuum of interface induced gap states IFIGS as a unifying theme Mönch explains the band structure lineup at all types of semiconductor interfaces. These intrinsic IFIGS are the wave function tails of electron states which overlap a semiconductor band gap exactly at the interface so they originate from the quantum mechanical tunnel effect. He shows that a more chemical view relates the IFIGS to the partial ionic character of the covalent interface bonds and that the charge transfer across the interface may be modeled by generalizing Pauling's electronegativity concept. The IFIGS and electronegativity theory is used to quantitatively explain the barrier heights and band offsets of well characterized Schottky contacts and semiconductor heterostructures respectively. **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. **Electronic Structure of Semiconductor Interfaces** Winfried Mönch, 2024-06-10 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 IFIGS result from the complex band structure of the corresponding

semiconductor The IFIGS 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 IFIGS 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

### **Semiconductor Interfaces: Formation and Properties**

Guy LeLay, Jacques Derrien, Nino Boccarda, 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

### **Semiconductor Interfaces**

Jacques Derrien, Nino Boccarda, 1987

### **Semiconductor Surfaces and Interfaces**

Winfried Mönch, 2001-04-10  
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 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 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

### **Electronic Properties of Semiconductor Interfaces**

Winfried Mönch, 2004-01-14 Almost all semiconductor devices contain metal semiconductor insulator semiconductor insulator metal and or semiconductor semiconductor interfaces and their electronic properties determine the device characteristics This is the first monograph that treats the

electronic properties of all different types of semiconductor interfaces Using the continuum of interface induced gap states IFIGS as the unifying concept M nch explains the band structure lineup at all types of semiconductor interfaces These intrinsic IFIGS are the wave function tails of electron states which overlap a semiconductor band gap exactly at the interface so they originate from the quantum mechanical tunnel effect He shows that a more chemical view relates the IFIGS to the partial ionic character of the covalent interface bonds and that the charge transfer across the interface may be modeled by generalizing Pauling s electronegativity concept The IFIGS and electronegativity theory is used to quantitatively explain the barrier heights and band offsets of well characterized Schottky contacts and semiconductor heterostructures respectively

*Control of Semiconductor Interfaces* I. Ohdomari, M. Oshima, A. Hiraki, 2017-05-03 This book focuses exclusively on control of interfacial properties and structures for semiconductor device applications from the point of view of improving and developing novel electrical properties The following topics are covered metal semiconductors semiconductor hetero interfaces characterization semiconducting new materials insulator semiconductor interfaces in device control of interface formation control of interface properties contact metallization A variety of up to date research topics such as atomic layer epitaxy atomic layer passivation atomic scale characterization including STM and SR techniques single ion implementation self organization crystal growth in situ measurements for process control and extremely high spatial resolution analysis techniques are also included Furthermore it bridges the macroscopic mesoscopic and atomic scale regimes of semiconductor interfaces describing the state of the art in forming controlling and characterizing unique semiconductor interfaces which will be of practical importance in advanced devices Intended for both technologists who require an up to date assessment of methods for interface formation processing and characterization and solid state researchers who desire the latest developments in understanding the basic mechanisms of interface physics chemistry and electronics this book will be a welcome addition to the existing literature

### **Semiconductor Interfaces at the Sub-Nanometer Scale** H.W.M

Salemink, M.D. Pashley, 2012-12-06 The Advanced Research Workshop on the Physical Properties of Semiconductor Interfaces at the Sub Nanometer Scale was held from 31 August to 2 September 1992 in Riva del Garda Italy The aim of the workshop was to bring together experts in different aspects of the study of semiconductor interfaces and in small scale devices where the interface properties can be very significant It was our aim that this would help focus research of the growth and characterization of semiconductor interfaces at the atomic scale on the issues that will have the greatest impact on devices of the future Some 30 participants from industrial and academic research institutes and from 11 countries contributed to the workshop with papers on their recent work There was ample time for discussion after each talk as well as a summary discussion at the end of the meeting The major themes of the meeting are described below The meeting included several talks relating to the different growth techniques used in heteroepitaxial growth of semiconductors Horikoshi discussed the atomistic processes involved in MBE MEE and MOCVD presenting results of experimental RHEED and photoluminescence

measurements Foxon compared the merits of MBE MOCVD and eBE growth Molder described RHEED studies of Si Ge growth by GSMBE and Pashley discussed the role of surface reconstructions in MBE growth as seen from STM studies on GaAs On the theoretical side Vvedensky described several different methods to model growth molecular dynamics Monte Carlo techniques and analytic modeling Metal-semiconductor Interfaces Akio Hiraki,1995 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 semi conductors 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 *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 III 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

*Semiconductor Interfaces And Microstructures* Zhe Chuan Feng, 1992-08-31 Recently there have been major achievements in the study of semiconductor interfaces and microstructures for different materials and structural systems Progress has been made through various experimental technologies and theoretical methods This book provides an up to date review on these advances and includes the following major subjects III V and II VI semiconductors and metal semiconductor structures new developments in growth methods electric optical magnetic and structural characterization and properties relative theories electronic transport phonons and interface modes devices and applications These materials are organized into four sections General III V II VI and IV IV which offer comprehensive information and help readers in following the new developments in the research frontiers of the above fields *Formation of Semiconductor Interfaces* B.

Lengeler, 1994 **Band Structure Engineering in Semiconductor Microstructures** R.A. Abram, M. Jaros, 2012-12-06 This volume contains the proceedings of the NATO Advanced Research Workshop on Band Structure Engineering in Semiconductor Microstructures held at Il Ciocco Castelvechio Pascali in Tuscany between 10th and 15th April 1988 Research on semiconductor microstructures has expanded rapidly in recent years as a result of developments in the semiconductor growth and device fabrication technologies The emergence of new semiconductor structures has facilitated a number of approaches to producing systems with certain features in their electronic structure which can lead to useful or interesting properties The interest in band structure engineering has stimulated a variety of physical investigations and novel device concepts and the field now exhibits a fascinating interplay between pure physics and device technology Devices based on microstructures are useful vehicles for fundamental studies but also new device ideas require a thorough understanding of the basic physics Around forty researchers gathered at Il Ciocco in the Spring of 1988 to discuss band structure engineering in semiconductor microstructures **Semiconductor Surfaces and Interfaces** Friedhelm Bechstedt, Rolf Enderlein, 1988 *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/supplements](http://www.wiley-vch.de/supplements)

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