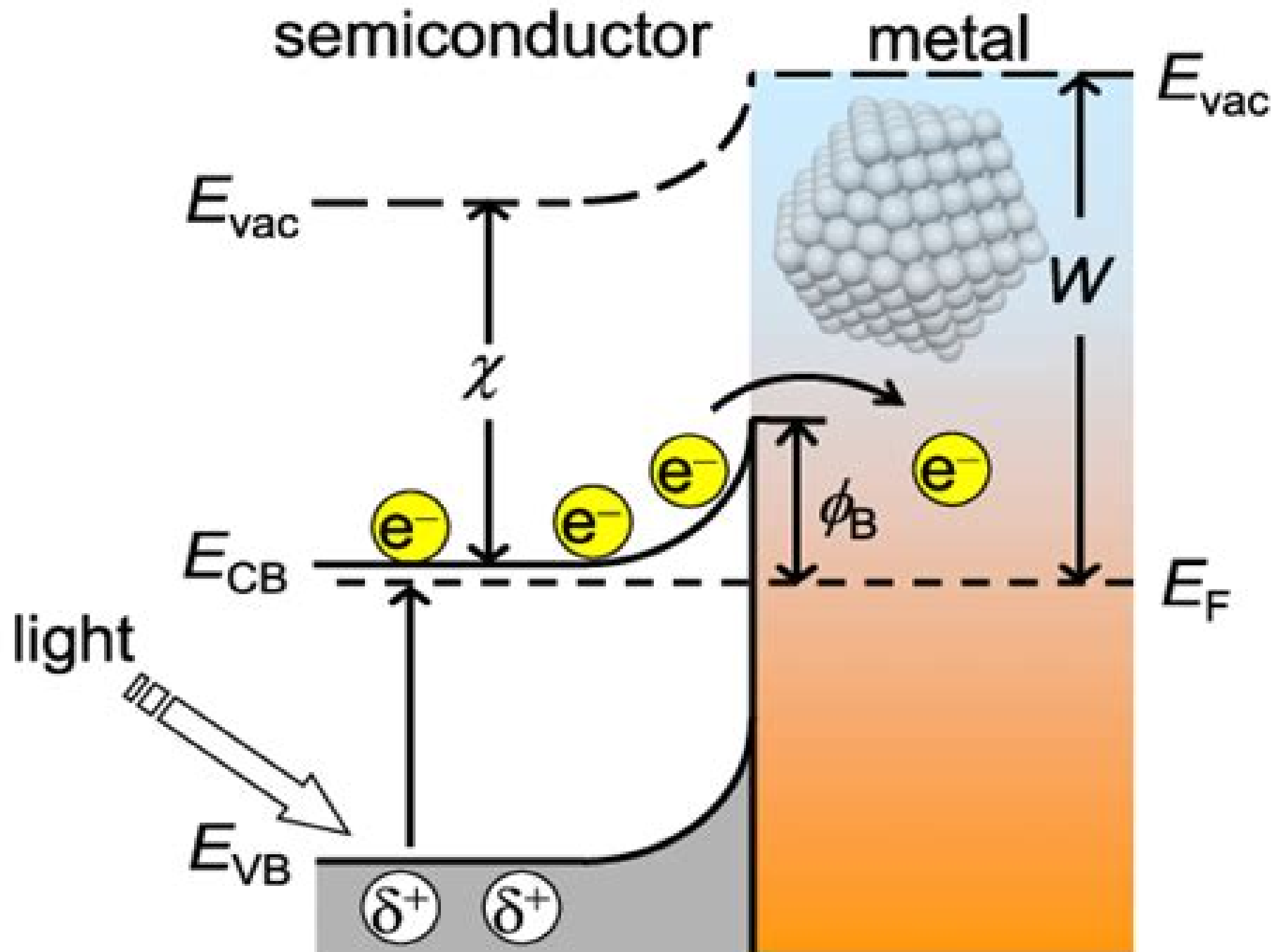


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# Electronic Properties Of Semiconductor Interfaces

**L Cohen**



## **Electronic Properties Of Semiconductor Interfaces:**

*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 *Electronic Properties of Semiconductor Interfaces* Winfried Mönch, 2014-01-15 **Field Effect in Semiconductor-electrolyte Interfaces** Pavel P. Konorov, Adil M. Yafyasov, Vladislav B. Bogevolnov, 2006-10-03 Publisher description **Electronic Properties of Semiconductor Superlattices, Amorphous Semiconductors, and Metal-semiconductor Interfaces** Lin Hung Yang, 1988 **Electronic Properties of Semiconductor Surfaces and Metal-semiconductor Interfaces** Massimo Tallarida, 2005 [Electronic Properties of Semiconductor Interfaces](#) F. Flores, C. Tejedor, F. Guinea, J. Sanchez-Dehesa, UNIVERSIDAD AUTONOMA DE MADRID (Spain) DEPT DE FISICA DEL ESTADO SOLIDO., 1983 The objective was to analyze the electronic properties of different semiconductor interfaces The Wannier function formalism has been applied to the GaAs AlAs 111 and 100 heterojunctions and superlattices Ionic relaxations band discontinuities and interface states have been obtained Abrupt Si metal interfaces and Si interlayer metal junctions have been analyzed by means of a selfconsistent tight binding approach The barrier height has been obtained by calculating the interface density of states and the neutral level of the junction Our results show that the barrier height is mainly determined by the coupling between the semiconductor and the last layer just sitting on top of the same semiconductor Author **The Electronic Properties of Semiconductors, Semiconductor-simple Metal Interfaces, and Transition Metal Alloys** Jeffrey Steven Nelson, 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 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      Some Dynamic Electronic Properties of Semiconductor Surfaces and Interfaces [microform] Kallin, Catherine,1984      **Basic Properties of Semiconductors** P.T. Landsberg,2016-04-19

Since Volume 1 was published in 1982 the centres of interest in the basic physics of semiconductors have shifted Volume 1 was called Band Theory and Transport Properties in the first edition but the subject has broadened to such an extent that Basic Properties is now a more suitable title Seven chapters have been rewritten by the original authors However twelve chapters are essentially new with the bulk of this work being devoted to important current topics which give this volume an almost encyclopaedic form The first three chapters discuss various aspects of modern band theory and the next two analyze impurities in semiconductors Then follow chapters on semiconductor statistics and on surfaces interfaces and band offsets as they occur in heterojunctions Chapters 8 to 19 report on newer topics though a survey of transport properties of carriers is also included Among these are transport of hot electrons and thermoelectric effects including here and elsewhere properties of low dimensional and mesoscopic structures The electron hole liquid the quantum Hall effect localisation ballistic transport coherence in superlattices current ideas on tunnelling and on quantum confinement and scattering processes are also covered      Electronic Properties of Thin Film Semiconductor Interfaces Andreas Klein,2003      *Semiconductor Interfaces and Microstructures* Zhe Chuan Feng,1992

- 1 Carrier transport in artificially structured two dimensional semiconductor systems W Walukiewicz
- 2 Miniband conduction in semiconductor superlattices A Sibille J F Palmier C Minot
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**Physics Of Semiconductors - Proceedings Of The 20th International Conference (In 3 Volumes)** E M Anastassakis, John D Joannopoulos, 1990-11-29 Gathering top experts in the field the 20th ICPS proceedings reviews the progress in all aspects of semiconductor physics The proceedings will include state of the art lectures with special emphasis on exciting new developments It should serve as excellent material for researchers in this and related fields

*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 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

**Comprehensive Semiconductor Science and Technology** , 2024-11-28 Semiconductors are at the heart of modern living Almost everything we do be it work travel communication or entertainment all depend on some feature of semiconductor technology Comprehensive Semiconductor Science and Technology Second Edition Three Volume Set captures the breadth of this important field and presents it in a single source to the large audience who study make and use semiconductor devices Written and edited by a truly international team of experts and newly updated to capture key advancements in the field this work delivers an objective yet cohesive review of the semiconductor world The work is divided into three sections fully updated and expanded from the first edition The first section is concerned with the fundamental physics of semiconductors showing how the electronic features and the lattice dynamics change drastically when systems vary from bulk to a low dimensional structure and further to a nanometer size Throughout this section there is an emphasis on the full understanding of the underlying physics especially quantum phenomena The second section deals largely with the transformation of the

conceptual framework of solid state physics into devices and systems which require the growth of high purity or doped bulk and epitaxial materials with low defect density and well controlled electrical and optical properties The third section is devoted to design fabrication and assessment of discrete and integrated semiconductor devices It will cover the entire spectrum of devices we see all around us for telecommunications computing automation displays illumination and consumer electronics Provides a comprehensive global picture of the semiconductor world Written and Edited by an international team of experts Compiles the most important semiconductor knowledge into one comprehensive resource Moves from fundamentals and theory to more advanced knowledge such as applications allowing readers to gain a deeper understanding of the field *Handbook of Compound Semiconductors* Paul H. Holloway, Gary E. McGuire, 2008-10-19 This book reviews the recent advances and current technologies used to produce microelectronic and optoelectronic devices from compound semiconductors It provides a complete overview of the technologies necessary to grow bulk single crystal substrates grow hetero or homoepitaxial films and process advanced devices such as HBT's QW diode lasers etc **Scientific and**

**Technical Aerospace Reports**, 1989 **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 Nanoscale Characterization of Surfaces and Interfaces N. John

DiNardo, 2008-09-26 Derived from the highly acclaimed series Materials Science and Technology this book provides in depth coverage of STM AFM and related non contact nanoscale probes along with detailed applications such as the manipulation of atoms and clusters on a nanometer scale The methods are described in terms of the physics and the technology of the methods and many high quality images demonstrate the power of these techniques in the investigation of surfaces and the

processes which occur on them Topics include Semiconductor Surfaces and Interfaces Insulators Layered Compounds Charge Density Wave Systems Superconductors Electrochemistry at Liquid Solid Interfaces Biological Systems Metrological Applications Nanoscale Surface Forces Nanotribology Manipulation on the Nanoscale Materials scientists surface scientists electrochemists as well as scientists working in catalysis and microelectronics will find this book an invaluable source of information

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