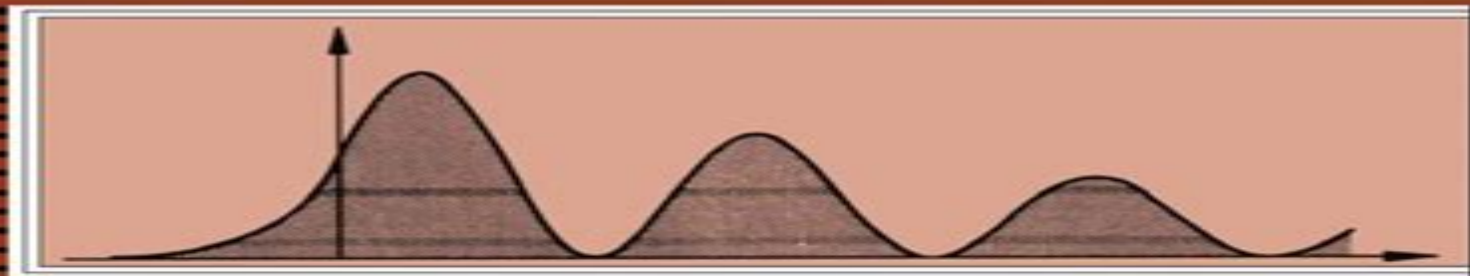


Surface Sciences

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Semiconductor Surfaces and Interfaces



Second Edition

Springer

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Semiconductor Surfaces and Interfaces Rolf Enderlein, Friedhelm Bechstedt, 1989-01-14 **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 *Some Dynamic Electronic Properties of Semiconductor Surfaces and Interfaces [microform]*

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

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

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

Control of Semiconductor Surfaces and Interfaces: Volume 448 S. K. Brierley, J. M. Gibson, O. J. Glembocki, 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

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

The Physics of Semiconductor Surfaces and Interfaces European Physical Society, **Control of Semiconductor Surfaces and Interfaces**, 1997

Physics of Semiconductor Surfaces and Interfaces Minko Balkanski, 1980 *Core Level Photoemission Studies of the Structure of Semiconductor Surfaces and Interfaces* Dah-An Luh, 2000 **Compound Semiconductor Surfaces and Interfaces** C. W. Wilmsen, COLORADO STATE UNIV FORT COLLINS., 1986 All semiconductor devices and integrated circuits require dielectric layers for interconnect isolation gate oxides passivation etc Thermally grown SiO₂ is the primary dielectric film for silicon technology This ONR contract investigated the chemistry and electrical properties of the interface between III V compound semiconductors and electrical properties of grown oxides and deposited When this study began very little was known about these oxides or their interfaces The results of the research supported by this contract has added substantially to the fundamental understanding of the oxide growth properties and electronic structure Much of the experimental work was obtained with surface analytical techniques and significant contributions were also made in this field The original ONR contract began in October 1975 and initially concentrated on the grown oxides of InP and GaAs This work evolved over the years to include the study of deposited insulator InP interfaces and trapping at the interface The ONR contract has supported the publication of 31 journal articles and book chapters and numerous conference presentations

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