

SEMICONDUCTOR GROWTH, SURFACES AND INTERFACES

Edited by
G. J. DAVIES AND R. H. WILLIAMS



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Semiconductor Growth Surfaces And Interfaces

Judd E. Hollander



Semiconductor Growth Surfaces And Interfaces:

Semiconductor Growth, Surfaces and Interfaces G.J. Davies,R.H. Williams,1994-03-31 Several diverse but related topics concerned with semiconductor growth are brought together here for the first time in a single text Those studying semiconductor growth from any perspective will find this book invaluable and it will be essential reading for all in the semiconductor industry whether in applications or in manufacturing

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

Dynamical Phenomena at Surfaces, Interfaces and Superlattices Fabrizio Nizzoli,Manuel Cardona,Karl-Heinz Rieder,Roy F. Willis,2012-12-06 Extended Defects in Semiconductors D. B. Holt,B. G. Yacobi,2007-04-12 The elucidation of the effects of structurally extended defects on electronic properties of materials is especially important in view of the current advances in electronic device development that involve defect control and engineering at the nanometer level This book surveys the properties effects roles and characterization of extended defects in semiconductors The basic properties of extended defects dislocations stacking faults grain boundaries and precipitates are outlined and their effect on the electronic properties of semiconductors their role in semiconductor devices and techniques for their characterization are discussed These topics are among the central issues in the investigation and applications of semiconductors and in the operation of semiconductor devices The authors preface their treatment with an introduction to semiconductor materials and conclude with a chapter on point defect maldistributions This text is suitable for advanced undergraduate and graduate students in materials science and engineering and for those studying semiconductor physics

Materials Sciences Programs United States. Department of Energy. Division of Materials Sciences,1992

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 *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

Semiconductor Growth, Surfaces and Interfaces ,1993

Scientific and Technical Aerospace Reports ,1995

Narrow-gap II-VI Compounds for Optoelectronic and Electromagnetic Applications Peter Capper, 1997-10-31 The field of narrow gap II VI materials is dominated by the compound mercury cadmium telluride MCT or $\text{Hg}_{1-x}\text{Cd}_x\text{Te}$ By varying the x value material can be made to cover all the important infrared IR ranges of interest It is probably true to say that MCT is the third most studied semiconductor after silicon and gallium arsenide As current epitaxial layers of MCT are mainly grown on bulk CdTe family substrates these materials are included in this book although strictly of course they are not narrow gap This book is intended for readers who are either new to the field or are experienced workers in the field who need a comprehensive and up to date view of this rapidly expanding area To satisfy the needs of the first group each chapter discusses the principles underlying each topic and some of the historical background before bringing the reader the most recent information available For those currently in the field the book can be used as a collection of useful data as a guide to the literature and as an overview of topics covering the wide range of work areas

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