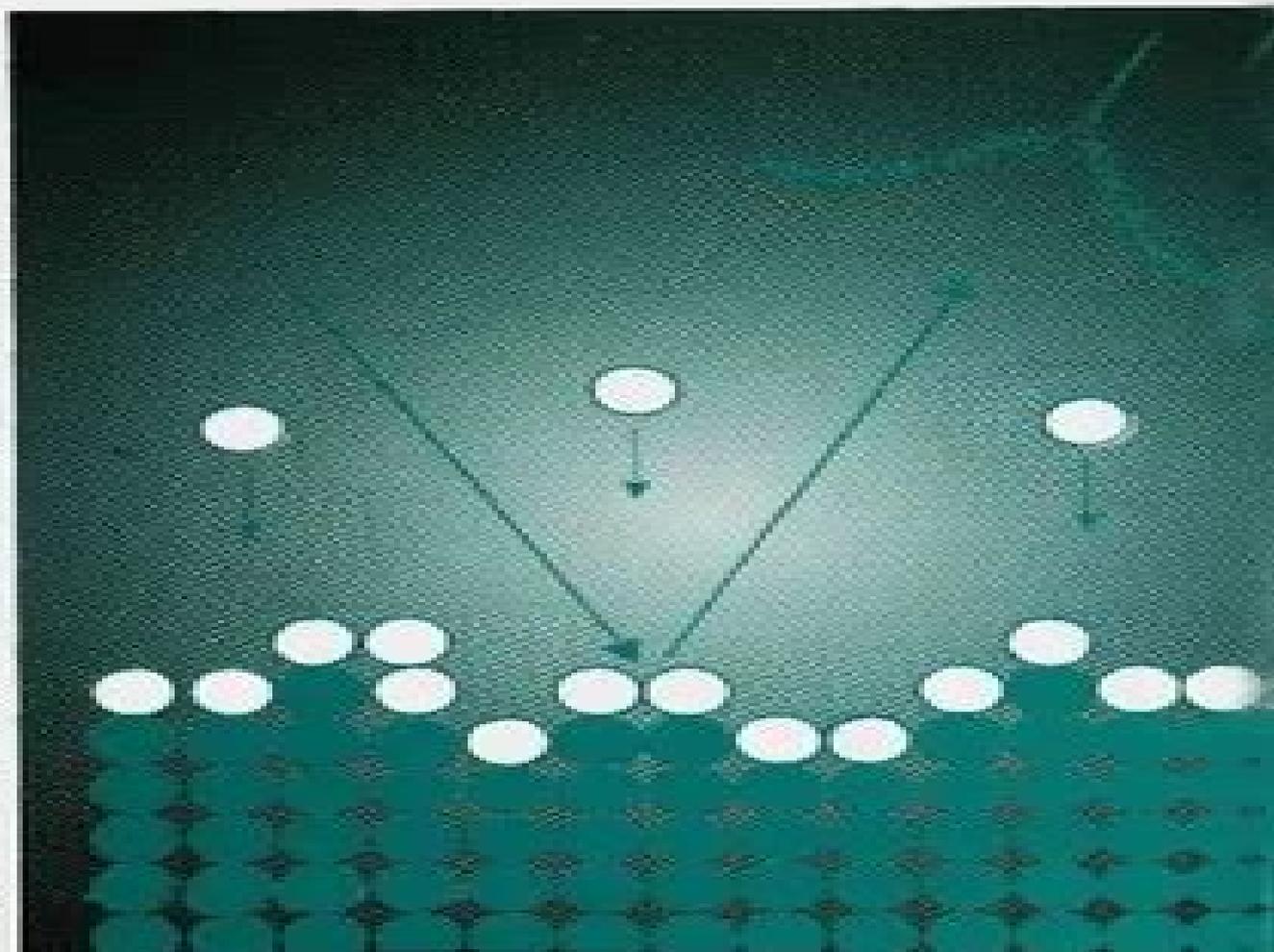


DIFFRACTION FROM ROUGH SURFACES AND DYNAMIC GROWTH FRONTS

H.-N. Yang
G.-C. Wang
T.-M. Lu



World Scientific

Diffraction From Rough Surfaces And Dynamic Growth Fronts

Gwo-Ching Wang, Toh-Ming Lu



Diffraction From Rough Surfaces And Dynamic Growth Fronts:

Diffraction from Rough Surfaces and Dynamic Growth Fronts Hong-Ning Yang, Gwo-Ching Wang, Toh-Ming Lu, 1993

Designed both for experimentalists who study rough surfaces and the dynamics of thin film growth using diffraction techniques and for theorists who wish to learn of such rough surfaces and dynamic behavior in Fourier space this monograph quickly brings the readers to forefront research in the area of the dynamics of interface growth Graduate and advanced undergraduate students as well as those readers who have very little prior knowledge of diffraction can pick up the subject matter with little difficulty This monograph gives a brief review and summary at the end of each chapter After the introduction of the elementary theory of diffraction in Chapter I Chapter II discusses the various parameters and correlation functions that are essential in describing a rough surface In Chapter III the authors not only show analytical forms of the diffraction structure factor for both rough crystalline and non crystalline surfaces but also outline the methods of extracting the interface width the lateral correlation length and the roughness parameter from the diffraction structure factor To present the basic physical concepts underlying the scaling hypothesis during dynamic growth in Chapter IV a detailed description of the dynamic scaling properties of the height height correlation function the height difference function and the structure factor is given The structure factor from a dynamic growth front is derived in Chapter V An example of a quantitative measurement of the dynamic growth front of an epitaxial system is also given in this chapter In Chapter VI a particular type of rough surfaces having a diverging interface width associated with an equilibrium surface roughening transition is discussed A comparison of the diffraction characteristics from divergent and non divergent interface is also summarized

Characterization of Amorphous and Crystalline Rough Surface -- Principles and Applications, 2000-10-23 The structure of a growth or an etch front on a surface is not only a subject of great interest from the practical point of view but also is of fundamental scientific interest Very often surfaces are created under non equilibrium conditions such that the morphology is not always smooth In addition to a detailed description of the characteristics of random rough surfaces

Experimental Methods in the Physical Sciences Volume 37 *Characterization of Amorphous and Crystalline Rough Surface Principles and Applications* will focus on the basic principles of real and diffraction techniques for quantitative characterization of the rough surfaces The book thus includes the latest development on the characterization and measurements of a wide variety of rough surfaces The complementary nature of the real space and diffraction techniques is fully displayed

Key Features An accessible description of quantitative characterization of random rough surfaces and growth etch fronts A detailed description of the principles experimentation and limitations of advanced real space imaging techniques such as atomic force microscopy and diffraction techniques such as light scattering X ray diffraction and electron diffraction Characterization of a variety of rough surfaces e g self affine mounded anisotropic and two level surfaces accompanied by quantitative examples to illustrate the essence of the principles An insightful description of how rough

surfaces are formed Presentation of the most recent examples of the applications of rough surfaces in various areas

RHEED Transmission Mode and Pole Figures Gwo-Ching Wang, Toh-Ming Lu, 2013-12-11 This unique book covers the fundamental principle of electron diffraction basic instrumentation of RHEED definitions of textures in thin films and nanostructures mechanisms and control of texture formation and examples of RHEED transmission mode measurements of texture and texture evolution of thin films and nanostructures Also presented is a new application of RHEED in the transmission mode called RHEED pole figure technique that can be used to monitor the texture evolution in thin film growth and nanostructures and is not limited to single crystal epitaxial film growth Details of the construction of RHEED pole figures and the interpretation of observed pole figures are presented Materials covered include metals semiconductors and thin insulators This book also Presents a new application of RHEED in the transmission mode Introduces a variety of textures from metals semiconductors compound semiconductors and their characteristics in RHEED pole figures Provides examples of RHEED measurements of texture and texture evolution construction of RHEED pole figures and interpretation of observed pole figures RHEED Transmission Mode and Pole Figures Thin Film and Nanostructure Texture Analysis is ideal for researchers in materials science and engineering and nanotechnology

Rough Surface Scattering and Contamination

Philip T. Chen, Zu-Han Gu, Alexei A. Maradudin, 1999

Leading-edge Semiconductor Research Thomas B. Elliot, 2005 This book includes within its scope studies of the structural electrical optical and acoustical properties of bulk low dimensional and amorphous semiconductors computational semiconductor physics interface properties including the physics and chemistry of heterojunctions metal semiconductor and insulator semiconductor junctions all multi layered structures involving semiconductor components Dopant incorporation Growth and preparation of materials including both epitaxial e g molecular beam and chemical vapour methods and bulk techniques in situ monitoring of epitaxial growth processes also included are appropriate aspects of surface science such as the influence of growth kinetics and chemical processing on layer and device properties The physics of semiconductor electronic and optoelectronic devices are examined including theoretical modelling and experimental demonstration all aspects of the technology of semiconductor device and circuit fabrication Relevant areas of molecular electronics and semiconductor structures incorporating Langmuir Blodgett films resists lithography and metallisation where they are concerned with the definition of small geometry structure The structural electrical and optical characterisation of materials and device structures are also included The scope encompasses materials and device reliability reliability evaluation of technologies failure analysis and advanced analysis techniques such as SEM E beam optical emission microscopy acoustic microscopy techniques liquid crystal techniques noise measurement reliability prediction and simulation reliability indicators failure mechanisms including charge migration trapping oxide breakdown hot carrier effects electro migration stress migration package related failure mechanisms effects of operational and environmental stresses on reliability

Spontaneous Ordering in Semiconductor Alloys Angelo

Mascarenhas,2012-12-06 The phenomenon of spontaneous ordering in semiconductor alloys which can be categorized as a self organized process is observed to occur spontaneously during epitaxial growth of certain ternary alloy semiconductors and results in a modification of their structural electronic and optical properties There has been a great deal of interest in learning how to control this phenomenon so that it may be used for tailoring desirable electronic and optical properties There has been even greater interest in exploiting the phenomenon for its unique ability in providing an experimental environment of controlled alloy statistical fluctuations As such it impacts areas of semiconductor science and technology related to the materials science of epitaxial growth statistical mechanics and electronic structure of alloys and electronic and photonic devices During the past two decades significant progress has been made toward understanding the mechanisms that drive this phenomenon and the changes in physical properties that result from it A variety of experimental techniques have been used to probe the phenomenon and several attempts made at providing theoretical models both for the ordering mechanisms as well as electronic structure changes The various chapters of this book provide a detailed account of these efforts during the past decade The first chapter provides an elaborate account of the phenomenon with an excellent perspective of the structural and electronic modifications it induces

New Horizons In Quasicrystals: Research And Applications - Proceedings Of The Conference Alan I Goldman, Jean-Marie Dubois, Daniel J Sordet, Patricia Ann Thiel, 1997-02-03 In this volume the following topics are discussed existing and potential applications of quasicrystals surface and interface properties of quasicrystals and potential new quasicrystalline materials It gathers contributions from world renowned researchers in the field of quasicrystals experts in fields such as surface science materials preparation and mechanical properties as well as representatives of industry to discuss possible directions for basic and applied programs of research for these novel materials

Thermal Smoothing of a Rough Au(111) Surface Tatjana Ćurčić, 1998 The Structure and Kinetics of Charge-density Waves Kristin Lee Ringland, 2000 *Electron Microscopy* S. Amelinckx, Dirk van Dyck, J. van Landuyt, Gustaaf van Tendeloo, 2008-09-26 Derived from the successful three volume Handbook of Microscopy this book provides a broad survey of the physical fundamentals and principles of all modern techniques of electron microscopy This reference work on the method most often used for the characterization of surfaces offers a competent comparison of the feasibilities of the latest developments in this field of research Topics include Stationary Beam Methods Transmission Electron Microscopy Electron Energy Loss Spectroscopy Convergent Electron Beam Diffraction Low Energy Electron Microscopy Electron Holographic Methods Scanning Beam Methods Scanning Transmission Electron Microscopy Scanning Auger and XPS Microscopy Scanning Microanalysis Imaging Secondary Ion Mass Spectrometry Magnetic Microscopy Scanning Electron Microscopy with Polarization Analysis Spin Polarized Low Energy Electron Microscopy Materials scientists as well as any surface scientist will find this book an invaluable source of information for the principles of electron microscopy

Mechanisms and Principles of Epitaxial Growth in Metallic Systems: Volume 528 Luc T. Wille, 1998-08-06 The MRS

Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners A
Study of Influence of Impurities on Surface and Interfacial Morphology of Semiconductors Grown by Chemical Vapor Deposition Sabyasachi Nayak,1997 *Characterization of Interface Morphology in Multilayer Thin Films Using X-ray Scattering* Donald Edward Savage,1994 Investigation of Structural and Magnetic Properties of CoCrTa/Co₃O₄/Pt Perpendicular Magnetic Thin Film Media and MFM Study of Ultra-high Density Magnetic Bit Patterns Xing Song,1996

Perspectives on Inorganic, Organic, and Biological Crystal Growth: From Fundamentals to Applications Marek Skowronski,Christine A. Wang,2007-06-27 This book provides a comprehensive overview of crystal growth for graduate students who are about to engage in research on crystal growth as well as experienced researchers who are interested in broadening their perspective of the crystal growth field and learning about new materials and techniques A wide range of crystal growth topics are covered in 27 separate title areas including underlying fundamentals of crystal growth such as thermodynamics and kinetics

Development and Application of a Near-field Scanning Optical Microscope in the Studies of Compound Semiconductor Materials Jutong Liu,1996

Chemical and Physical Aspects of Polymer Science and Engineering I. Meisel,K. Grieve,C. S. Kniep,S. Spiegel,2002-10-04 The 5th sterreichische Polymertage Austrian Polymer Meetings held in Leoben Austria in September 2001 not only showcased the best of Austrian polymer science but attracted researchers from around the world While the focus of the meeting was on polymer engineering and science in areas such as synthesis polymer physics modification and characterization interesting contributions on materials properties and theory were also presented Fifty three of the presentations from the meeting are collected in this volume of Macromolecular Symposia giving a general survey of the chemical and physical aspects of polymer engineering and science

Physical Review Letters ,1999 *Japanese Journal of Applied Physics* ,2006 **Chinese Journal of Physics** ,2005-02

Whispering the Strategies of Language: An Mental Quest through **Diffraction From Rough Surfaces And Dynamic Growth Fronts**

In a digitally-driven earth wherever screens reign supreme and quick interaction drowns out the subtleties of language, the profound strategies and mental subtleties concealed within words often move unheard. However, nestled within the pages of **Diffraction From Rough Surfaces And Dynamic Growth Fronts** a captivating fictional prize sporting with organic emotions, lies an exceptional journey waiting to be undertaken. Published by an experienced wordsmith, that marvelous opus encourages visitors on an introspective journey, lightly unraveling the veiled truths and profound impact resonating within the fabric of every word. Within the mental depths of this emotional review, we can embark upon a sincere exploration of the book is key subjects, dissect its interesting publishing model, and fail to the effective resonance it evokes deep within the recesses of readers hearts.

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