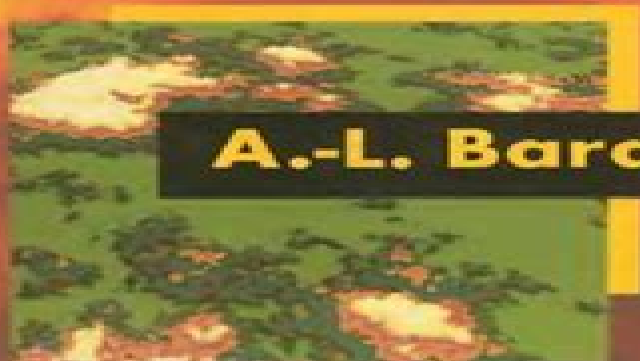


FRACTAL CONCEPTS IN SURFACE GROWTH



A.-L. Barabási H.E. Stanley

Fractal Concepts In Surface Growth

D.P. Landau, S.P. Lewis



Fractal Concepts In Surface Growth:

Fractal Concepts in Surface Growth A.- L. Barabási, H. E. Stanley, 1995-04-13 This book brings together two of the most exciting and widely studied subjects in modern physics namely fractals and surfaces To the community interested in the study of surfaces and interfaces it brings the concept of fractals To the community interested in the exciting field of fractals and their application it demonstrates how these concepts may be used in the study of surfaces The authors cover in simple terms the various methods and theories developed over the past ten years to study surface growth They describe how one can use fractal concepts successfully to describe and predict the morphology resulting from various growth processes Consequently this book will appeal to physicists working in condensed matter physics and statistical mechanics with an interest in fractals and their application The first chapter of this important new text is available on the Cambridge Worldwide Web server <http://www.cup.cam.ac.uk/onlinepubs/Textbooks/textbookstop.html>

Dynamics of Fluctuating Interfaces and Related Phenomena CTP Workshop on Statistical Physics 1997, Seoul National University, Doochul Kim, 1997

Roughening dynamics of various interface problems has been an attractive topic recently The subject is related to many interdisciplinary branches in nonequilibrium statistical physics such as crystal growth vortex dynamics fractals and chaos and self organized critical phenomena This volume includes pedagogical reviews of the scaling concepts in fluctuating surfaces current theories on epitaxial growth phenomena and interface dynamics in disordered media and many other related topics Thus it serves as a valuable reference for both graduate students and researchers in statistical physics and materials science Publisher's website *Dynamics Of Fluctuating Interfaces And Related Phenomena: Proceedings Of The 4th Ctp Workshop On Statistical* Doochul Kim, H Park, Byungnam Kahng, 1997-09-05

Roughening dynamics of various interface problems has been an attractive topic recently The subject is related to many interdisciplinary branches in nonequilibrium statistical physics such as crystal growth vortex dynamics fractals and chaos and self organized critical phenomena This volume includes pedagogical reviews of the scaling concepts in fluctuating surfaces current theories on epitaxial growth phenomena and interface dynamics in disordered media and many other related topics Thus it serves as a valuable reference for both graduate students and researchers in statistical physics and materials science *Low Molecular Mass Gelators* Frederic Fages, 2005-08-02

With contributions by numerous experts *Materials Processing Technologies* Zheng Yi Jiang, Xianghua Liu, Jinglong Bu, 2010-10-27 Selected peer reviewed papers from the 2010 International Conference on Advances in Materials and Manufacturing Processes ICAMMP 2010 6-8 November 2010 Shenzhen China *Fractal Concepts in Condensed Matter Physics* Tsuneyoshi Nakayama, Kousuke Yakubo, 2013-06-29

Concisely and clearly written this book provides a self contained introduction to the basic concepts of fractals and demonstrates their use in a range of topics in condensed matter physics and statistical mechanics The first part outlines different fractal structures observed in condensed matter The main part of the book is dedicated to the dynamical behaviour of fractal structures including

anomalous and percolating systems The concept of multifractals is illustrated for the metal insulator quantum phase transition The authors emphasize the unified description of these different dynamic problems thus making the book accessible to readers who are new to the field

Stochastic Dynamics Lutz Schimansky-Geier, 1997-05-20 Stochastic Dynamics born almost 100 years ago with the early explanations of Brownian motion by physicists is nowadays a quickly expanding field of research within nonequilibrium statistical physics The present volume provides a survey on the influence of fluctuations in nonlinear dynamics It addresses specialists although the intention of this book is to provide teachers and students with a reliable resource for seminar work In particular the reader will find many examples illustrating the theory as well as a host of recent findings

Artificial Intelligence and Computer Science Susan Shannon, 2005 This book presents leading edge research in the field of computer research technology and applications Each contribution has been carefully selected for inclusion based on the significance of the research to the field Summaries of all chapters are gathered at the beginning of the book and an in depth index is presented to facilitate access

Computer Simulation Studies in Condensed-Matter Physics XIV D.P. Landau, S.P. Lewis, 2002-05-28 Over the last 30 years Professor David P Landau's trailblazing research achievements and influential leadership have helped establish computer simulation as a powerful and incisive mode of scientific investigation now on a par in the physical sciences with experimental and theoretical research This year we were very pleased to organize a special one day symposium honoring the 60th birthday of our distinguished colleague and friend This event was held in conjunction with and immediately following the annual computer simulations workshop that Professor Landau founded 14 years ago Many of the papers presented at this honorary symposium are integrated into this proceedings volume and the accompanying photograph of participants serves to commemorate this very special event This volume contains both invited papers and contributed presentations on problems in both classical and quantum condensed matter physics We hope that each reader will benefit from specialized results as well as profit from exposure to new algorithms methods of analysis and conceptual developments

Journal of the Indian Institute of Science Indian Institute of Science, Bangalore, 1986

Perception, 2004

The Physics of Complex Systems F. Mallamace, H.E. Stanley, 2006-01-15 This volume focuses on the area of the physics of complex systems and provides both an overview of the field and more detailed examination of those topics within the field that are currently of greatest interest to researchers The properties of complex systems play an important role in a variety of different and overlapping areas in physics chemistry biology mathematics and technology The research field of complex systems is very broad but this volume attempts to be comprehensive This book is a useful reference work for researchers in this area whether graduate students or advanced academics Up to date reviews of cutting edge topics are provided compiled by leading authorities and designed to both broaden the reader's insight and encourage the exploration of new problems in related fields An overview of the present status of the physics of complex systems is provided on the following general topics 1 scaling behaviours 2 supramolecular

systems 3 aggregation aggregation kinetics and disorderly growth mechanisms 4 granularly matter 5 polymers associating polymers polyelectrolytes and gels 6 amphiphiles emulsions colloids membranes and interface phenomena 7 molecular motors 8 phase separation and out of equilibrium dynamics 9 turbulence chaos and chaotic dynamics 10 glass transition supercooled fluids and 11 geometrically constrained dynamics

Introduction to Nonlinear Physics Lui Lam, 1997 This textbook provides an introduction to the new science of nonlinear physics for advanced undergraduates beginning graduate students and researchers entering the field The chapters by pioneers and experts in the field share a unified perspective Nonlinear science developed out of the increasing ability to investigate and analyze systems for which effects are not simply linear functions of their causes it is associated with such well known code words as chaos fractals pattern formation solitons cellular automata and complex systems Nonlinear phenomena are important in many fields including dynamical systems fluid dynamics materials science statistical physics and particle physics The general principles developed in this text are applicable in a wide variety of fields in the natural and social sciences The book will thus be of interest not only to physicists but also to engineers chemists geologists biologists economists and others interested in nonlinear phenomena Examples and exercises complement the text and extensive references provide a guide to research in the field

Substrate Engineering--paving the Way to Epitaxy David Norton, 2000 Epitaxial growth has always been a marriage of convenience between film and substrate More and more frequently however it is impractical to use the same material for both film and substrate because it is not available as large single crystals it is prohibitively expensive or its properties are ill suited for the intended application To meet these challenges many strategies have been pursued to achieve highly oriented or single crystal thin films via epitaxy Crystalline films have been mechanically bonded to other materials to form composite substrates Crystals have been cut and rewelded patterned and regrown buffer layered and repolished Each strategy has met with fundamental challenges including lattice mismatch chemical incompatibility differences in thermal expansion and structural dissimilarity This book first published in 2000 focuses on developments in novel substrate engineering which enable improved epitaxy Topics include biaxially textured substrates for high T_c coated conductors surfaces for oxide epitaxy wafer bonding and lift off lattice mismatch engineering substrate engineering and solid phase recrystallization and epitaxy

Surface Morphology and Transport Properties of Lipid/emulsifier Monolayer-coated Microbubbles Mark Andrew Borden, 2003

Metals Abstracts, 1996

Metrology, Origins, and Control of Sidewall Roughness in Chemically Amplified Resists Geoffrey W. Reynolds, 1999

Bulletin Institute of Mathematics and Its Applications, 1995

Nuclear Instruments & Methods in Physics Research, 2002

Atomic Diffusion and Step Dynamics on Vicinal Surfaces Branislav D. Blagojevic, 1999

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