



Time-Dependent Effects in Disordered Materials

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NATO ASI Series

Series B: Physics Vol. 167

Time Dependent Effects In Disordered Materials

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Time Dependent Effects In Disordered Materials:

Time-Dependent Effects in Disordered Materials Roger Pynn,2013-06-29 This volume comprised the proceedings of a NATO Advanced Study Institute held in Geilo Norway between 29 March and 9 April 1987 Although the principal support for the meeting was provided by the NATO Committee for Scientific Affairs a number of additional sponsors also contributed Additional funds were received from Institutt for Energiteknikk Norway The Norwegian Research Council for Science and Humanities NORDITA Denmark VISTA Norway The organizing committee would like to take this opportunity to thank all sponsors for their help in promoting an exciting and rewarding meeting This Study Institute was the ninth of a series of meetings held in Geilo on subjects related to phase transitions and was a natural successor to the 1985 meeting on Scaling Phenomena in Disordered Systems Many of the subjects discussed at the latter meeting were revisited in 1987 with time dependence as an added feature Often the common theme was the concept of fractals first introduced into statistical physics some six years ago However by no means all disordered systems can be forced into a fractal framework and many of the lectures reinforced this lesson

Time-Dependent Effects in Disordered Materials Roger Pynn,2014-01-15

Advances in Magnetic and Optical Resonance Warren S. Warren,2013-10-22 Advances in Magnetic and Optical Resonance contains three articles which review quite fundamentally different aspects of coherent spectroscopy An enormous variety of effects can be observed when optical and spin resonances are coupled usually by a combination of radio frequency and laser irradiation The first article reviews these effects and pays particular attention to developing a theoretical framework which is as similar as possible for the optical and spin cases Subsequent articles examine deuterium relaxation in molecular solids and the spatiotemporal growth of multiple spin coherences in networks of strongly dipolar coupled spins driven by radiofrequency fields

Computer Simulation Studies in Condensed Matter Physics II David P. Landau,Kin K. Mon,Heinz-Bernd Schüttler,2012-12-06 A broad overview of recent developments in computer simulation studies of condensed matter systems is provided in this book Both classical and quantum systems are discussed The contributions present new physical results and describe new simulation techniques and novel ways of interpreting simulational data Topics covered include parallelization and vectorization cellular automata fractals and aggregation damage spreading molecular dynamics of proteins and rotating molecules in solids quantum Monte Carlo studies of strongly correlated electron systems

Fractals and Chaos A.J. Crilly,Rae Earnshaw,Huw Jones,2012-12-06 This volume is based upon the presentations made at an international conference in London on the subject of Fractals and Chaos The objective of the conference was to bring together some of the leading practitioners and exponents in the overlapping fields of fractal geometry and chaos theory with a view to exploring some of the relationships between the two domains Based on this initial conference and subsequent exchanges between the editors and the authors revised and updated papers were produced These papers are contained in the present volume We thank all those who contributed to this effort by way of planning and organisation and also all those

who helped in the production of this volume In particular we wish to express our appreciation to Gerhard Rossbach Computer Science Editor Craig Van Dyck Production Director and Nancy A Rogers who did the typesetting A J Crilly R A Earnshaw H Jones 1 March 1990 Introduction Fractals and Chaos The word fractal was coined by Benoit Mandelbrot in the late 1970s but objects now defined as fractal in form have been known to artists and mathematicians for centuries Mandelbrot s definition a set whose Hausdorff dimension is not an integer is clear in mathematical terms In addition related concepts are those of self similarity and sub divisibility A fractal object is self similar in that subsections of the object are similar in some sense to the whole object

Fractal Surfaces John C. Russ,2013-11-11 The author integrates discussions of fractal geometry surface modeling techniques and applications to real world problems to provide a comprehensive accessible overview of the field His work will equip researchers with the basic tools for measurement and interpretation of data stimulating more work on these problems and perhaps leading to an understanding of the reasons that Nature has adopted this geometry to shape much of our world

Energy Research Abstracts ,1987 **Sol-Gel Science** C. Jeffrey Brinker,George W. Scherer,2013-10-22 Sol Gel Science The Physics and Chemistry of Sol Gel Processing presents the physical and chemical principles of the sol gel process The book emphasizes the science behind sol gel processing with a chapter devoted to applications The first chapter introduces basic terminology provides a brief historical sketch and identifies some excellent texts for background reading Chapters 2 and 3 discuss the mechanisms of hydrolysis and condensation for nonsilicate and silicate systems Chapter 4 deals with stabilization and gelation of sols Chapter 5 reviews theories of gelation and examines the predicted and observed changes in the properties of a sol in the vicinity of the gel point Chapter 6 describes the changes in structure and properties that occur during aging of a gel in its pore liquor or some other liquid The discussion of drying is divided into two parts with the theory concentrated in Chapter 7 and the phenomenology in Chapter 8 The structure of dried gels is explored in Chapter 9 Chapter 10 shows the possibility of using the gel as a substrate for chemical reactions or of modifying the bulk composition of the resulting ceramic by performing a surface reaction such as nitridation on the gel Chapter 11 reviews the theory and practice of sintering describing the mechanisms that govern densification of amorphous and crystalline materials and showing the advantages of avoiding crystallization before sintering is complete The properties of gel derived and conventional ceramics are discussed in Chapter 12 The preparation of films is such an important aspect of sol gel technology that the fundamentals of film formation are treated at length in Chapter 13 Films and other applications are briefly reviewed in Chapter 14 Materials scientists and researchers in the field of sol gel processing will find the book invaluable

Phase Transitions and Critical Phenomena Cyril Domb,Melville S. Green,1972 **Bibliographic Guide to Technology** New York Public Library. Research Libraries,1989 Advances in Magnetic and Optical Resonance ,1990 *Journal of the Physical Society of Japan* Nihon Butsuri Gakkai,2007 *Technical Report of ISSP.* ,1994 **The Journal of the Acoustical Society of America** ,1991 *Encyclopedia of Polymer Science*

and Engineering, Styrene Polymers to Toys Herman F. Mark, Jacqueline I. Kroschwitz, 1985 Part of a multi volume work this study of polymer science and engineering has been revised and updated to reflect the vast changes that have occurred in polymer and plastics technology over the past 20 years Engineering and processing topics are examined as well as computer applications

Encyclopedia of Polymer Science and Engineering Herman Francis Mark, Jacqueline I. Kroschwitz, 1985 This is a supplement volume to the Encyclopedia of Polymer Science and Engineering which covers ground from acid base interactions to vinyl chloride polymers

Crystal Properties and Preparation, 1988 Annual Report Aarhus universitet. Fysisk institut, 1987

Physical Review, 1999-12 Publishes papers that report results of research in statistical physics plasmas fluids and related interdisciplinary topics There are sections on 1 methods of statistical physics 2 classical fluids 3 liquid crystals 4 diffusion limited aggregation and dendritic growth 5 biological physics 6 plasma physics 7 physics of beams 8 classical physics including nonlinear media and 9 computational physics

Trudy i materialy nauchnykh kongressov i soveshchaniï, opublikovannye za rubezhom v ... gg, 1987

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Time Dependent Effects In Disordered Materials Introduction

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