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STATISTICAL PHYSICS OF FRACTURE AND BREAKDOWN IN DISORDERED SYSTEMS

BIKAS K. CHAKRABARTI
and L. GILLES BENGUIGUI



Statistical Physics Of Fracture And Breakdown In Disordered Systems

Karin Nielsen-Saines



Statistical Physics Of Fracture And Breakdown In Disordered Systems:

Statistical Physics of Fracture and Breakdown in Disordered Systems Bikas K. Chakrabarti, Lucien-Gilles Benguigui, 1997 Under extreme conditions the mechanical or electrical properties of solids tend to be destabilized and failure or breakdown occurs In practice these instabilities in the solid often nucleate or spread from disorders in the structure of the solid This book investigates the modelling of such failure and breakdown processes The basic principles are illuminated with a large number of computer simulations and laboratory simulations or table top experiments Three particular case studies of failure are presented electrical failures like fuse and dielectric breakdown mechanical fracture and earthquakes as an example of dynamic failure *Statistical Physics of Fracture, Breakdown, and Earthquake* Soumyajyoti Biswas, Purusattam Ray, Bikas K. Chakrabarti, 2015-08-10 In this book the authors bring together basic ideas from fracture mechanics and statistical physics classical theories simulation and experimental results to make the statistical physics aspects of fracture more accessible They explain fracture like phenomena highlighting the role of disorder and heterogeneity from a statistical physical viewpoint The role of defects is discussed in brittle and ductile fracture ductile to brittle transition fracture dynamics failure processes with tension as well as compression experiments failure of electrical networks self organized critical models of earthquake and their extensions to capture the physics of earthquake dynamics The text also includes a discussion of dynamical transitions in fracture propagation in theory and experiments as well as an outline of analytical results in fiber bundle model dynamics With its wide scope in addition to the statistical physics community the material here is equally accessible to engineers earth scientists mechanical engineers and material scientists It also serves as a textbook for graduate students and researchers in physics *Scaling and Disordered Systems* Fereydoon Family, 2002 Investigation of the fractal and scaling properties of disordered systems has recently become a focus of great interest in research Disordered or amorphous materials like glasses polymers gels colloids ceramic superconductors and random alloys or magnets do not have a homogeneous microscopic structure The microscopic environment varies randomly from site to site in the system and this randomness adds to the complexity and the richness of the properties of these materials A particularly challenging aspect of random systems is their dynamical behavior Relaxation in disordered systems generally follows an unusual time dependent trajectory Applications of scaling and fractal concepts in disordered systems have become a broad area of interdisciplinary research involving studies of the physics chemistry mathematics biology and engineering aspects of random systems This book is intended for specialists as well as graduate and postdoctoral students working in condensed matter or statistical physics It provides state of the art information on the latest developments in this important and timely topic The book is divided into three parts Part I deals with critical phenomena Part II is devoted to discussion of slow dynamics and Part III involves the application of scaling concepts to random systems The effects of disorder at the mesoscopic scale as well as the latest results on the dynamical properties of disordered systems are presented In particular recent developments in static and dynamic scaling theories and

applications of fractal concepts to disordered systems are discussed *Statistical Physics of Non-Thermal Phase Transitions* Sergey G. Abaimov, 2015-05-18 This book addresses the application of methods used in statistical physics to complex systems from simple phenomenological analogies to more complex aspects such as correlations fluctuation dissipation theorem the concept of free energy renormalization group approach and scaling Statistical physics contains a well developed formalism that describes phase transitions It is useful to apply this formalism for damage phenomena as well Fractals the Ising model percolation damage mechanics fluctuations free energy formalism renormalization group and scaling are some of the topics covered in Statistical Physics of Phase Transitions **Earthquakes and Their Impact on Society** Sebastiano

D'Amico, 2015-09-28 This book provides an integrated approach to the assessment of seismic hazards The reduction of losses expected by future earthquakes is probably the most important contribution of seismology to society Large earthquakes occurred in densely populated areas highlight the dramatic inadequacy of a massive portion of the buildings demonstrating the high risks of modern industrial societies Building earthquake resistant structures and retrofitting old buildings on a national scale can be extremely expensive and can represent an economic challenge even for developed western countries Earthquakes can cause also several psychological problems due to the fact that such kind of disasters will result in casualties collapsing of houses strategic buildings and facilities and deeply affect a community Moreover in our society it is necessary to properly plan emergency responses and rescues taking into account any possible secondary effect in order to avoid more casualties The Fiber Bundle Ferenc Kun, Alex Hansen, Purusattam Ray, Sutarshi Pradhan, 2022-01-10 Noise in

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