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This book is indexed in Chemical Abstracts ServiceSoft and bio-nanomaterials offer a tremendously rich behavior due to the diversity and tailorability of their structures. Built from polymers, nanoparticles, small and large molecules, peptoids and other nanoscale building blocks, such materials exhibit exciting functions, either intrinsically or through the engineering of their organization and combination of blocks. Thus, it is not surprising that a variety of challenges, for example, in energy storage, environment protection, advanced manufacturing, purification and healthcare, can be addressed using these materials. The recent advances in understanding the behavior of soft matter and biomaterials are being actively translated into functional materials systems and devices, which take advantages of newly discovered and specifically created morphologies with desired properties. This major

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reference work presents a detailed overview of recent research developments on fundamental and application-inspired aspects of soft and bio-nanomaterials and their emerging functions, and will be divided into four volumes: Vol 1: Soft Matter under Geometrical Confinement: From Fundamentals at Planar Surfaces and Interfaces to Functionalities of Nanoporous Materials; Vol 2: Polymers on the Nanoscale: Nano-structured Polymers and Their Applications; Vol 3: Bio-Inspired Nanomaterials: Nanomaterials Built from Biomolecules and Using Bio-derived Principles; Vol 4: Nanomedicine: Nanoscale Materials in Nano/Bio Medicine.

Over fifteen years ago, because of the tremendous increase in the power and utility of computer simulations, The University of Georgia formed the first institutional unit devoted to the use of simulations in research and teaching: The Center for Simulational Physics. As the international simulations community expanded further, we sensed a need for a meeting place for both experienced simulators and neophytes to discuss new techniques and recent results in an environment which promoted lively discussion. As a consequence, the Center for Simulational Physics established an annual workshop on Recent Developments in Computer Simulation Studies in Condensed Matter Physics. This year's workshop was the fifteenth in this series, and the continued interest shown by the scientific community demonstrates quite clearly the useful purpose that these meetings have served. The latest workshop was held at The University of Georgia, March 11-15, 2002, and these proceedings provide a "status report" on a number of important topics. This volume is published with the goal of timely dissemination of the material to a wider audience. We wish to offer a special thanks to IBM Corporation and to the National Science Foundation for partial support of this year's workshop. 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. Athens, GA, USA D. P.

Annual Reports on NMR Spectroscopy provides a thorough and in-depth accounting of progress in nuclear magnetic resonance (NMR) spectroscopy and its many applications. Nuclear magnetic resonance (NMR) is an analytical tool used by chemists and physicists to study the structure and dynamics of molecules. In recent years, no other technique has gained as much significance as NMR spectroscopy. It is used in all branches of science in which precise structural determination is required, and in which the nature of interactions and reactions in solution is being studied. This book has established itself as a premier means for both specialists and non-specialists who are looking to become familiar with new techniques and applications pertaining to NMR spectroscopy. Serves as the premier resource for learning the new techniques and applications of NMR spectroscopy Provides a key reference for chemists and physicists using NMR spectroscopy to study the structure and dynamics of molecules Covers all aspects of molecular science, including MRI (Magnetic Resonance Imaging)

Fifth volume of a 40 volume series on nanoscience and nanotechnology, edited by the renowned scientist Challa S.S.R. Kumar. This handbook gives a comprehensive overview about X-ray and Neutron Techniques for Nanomaterials Characterization. Modern applications and state-of-the-art techniques are covered and make this volume an essential reading for research scientists in academia and industry.

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NMR imaging of materials is a field of increasing importance. Applications expand from fundamental science like the characterization of fluid transport in porous rock, catalyst pellets, and hemodialyzers into various fields of engineering for process optimization and product and quality control, for example, of polymer materials, biomaterials, elastomers, and ceramics. While the results of NMR imaging are being appreciated in a growing community, the methods of imaging are far more diverse for materials applications than for medical imaging of humans. This book provides an introduction to NMR imaging of materials covering solid-state NMR spectroscopy, imaging methods for liquid and solid samples, and unusual NMR in terms of special approaches to spatial resolution like an NMR surface scanner. Special attention is paid to the large variety of ways to generate image contrast - the most prominent feature of NMR. The text is strong on methodology, and includes today's important application areas.

The concepts of self-similarity and scale invariance have arisen independently in several areas. One is the study of the critical properties of phase transitions; another is fractal geometry, which involves the concept of (non-integer) fractal dimension. These two areas have now come together, and their methods have extended to various fields of physics. The purpose of this Symposium was to provide an overview of the physical phenomena that manifest scale invariance and fractal properties with the aim of bringing out the common mathematical features. The emphasis was on theoretical and experimental work related to well defined physical phenomena.

Drawn from the 24th International Workshop on Condensed Matter Theories (Buenos Aires, Sep. 2000) these 45 papers, while centered on the concepts and techniques of condensed-matter physics, also address broad issues of common concern for theorists who apply advanced many-particle methods in other areas of physics. Five primary topics are covered by the contributions: quantum liquids, boson condensates, strongly-correlated electron systems, superconductivity and superfluidity, and phase transitions. Some of examples of specific questions addressed include shot noise of mesoscopic quantum systems, heat transport in superlattices, transitions from non-colinear to conlinear structures in a magnetic multilayer model, order-disorder transitions in a vortex lattice, perturbation theory in the one-phase region of an electron-ion system, and nonlinear dynamics in metal clusters. c. Book News Inc.

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