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Liquid Crystals, Magnetic Systems,
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Metallic Glasses



Springer

Relaxation Phenomena Liquid Crystals Magnetic Systems Polymers Hightc Superconductors Metallic Glaves

J. Fünfschilling



Relaxation Phenomena Liquid Crystals Magnetic Systems Polymers High Tc Superconductors Metallic Glasses:

Relaxation Phenomena Wolfgang Haase, Stanislaw Wróbel, 2013-03-09 The authors describe the electric magnetic and other relaxational processes in a wide spectrum of materials liquid crystals molecular magnets polymers high Tc superconductors and glasses The book summarizes the phenomenological fundamentals and the experimental methods used A detailed description of molecular and collective dynamics in the broad range of liquid crystals is presented Magnetic systems high Tc superconductors polymers and glasses are an important subject of matter It is shown that the researchers working on relaxation processes in different fields of materials sciences are dealing with the same physical fundamentals but are sometimes using slightly different terms The book is addressed to scientists engineers graduate and undergraduate students experimentalists and theorists in physics chemistry materials sciences and electronic engineering Many internationally well known experts contribute to it *Relaxation and Diffusion in Complex Systems* K.L. Ngai, 2011-03-25 The usefulness of the book to the reader is exposure to many different classes of materials and relaxation phenomena They are tied together by the universal relaxation and diffusion properties they share and a consistent explanation of their origin The readers can apply what they learn to solve their own problems and use it as a stepping stone to make further advances in theoretical understanding of the origin of the universality **Relaxation Phenomena** Wolfgang Haase, Stanislaw Wrobel, 2014-01-15 **Points, Lines and Walls** Maurice Kleman, 1983 **Relaxations in Complex Systems** Naval Research Laboratory (U.S.), 1985 The book presents a survey and review of relaxation phenomena in many research fields Contents Viscous Liquids and Glasses Relaxation in Polymers Metallic Glasses Spin Glasses Electrical Relaxations in Ionic Conductors and Theory and Models **Nuclear Magnetic Resonance of Liquid Crystals** Ronald Y. Dong, 2012-12-06 Liquid crystals have become ubiquitous in the displays for electronic devices ranging from wrist watches to laptop computers Nuclear magnetic resonance has become one of the important techniques for determining their structures and properties Intended for researchers and students in physics chemistry and materials science this book provides the necessary background information and sufficient mathematical and physical detail to study the current research literature The book begins with a survey of liquid crystal phases and field effects and with an introduction to the basic physics of nuclear magnetic resonance it then discusses orientational ordering and molecular field theories for various liquid crystal molecules and NMR studies of uniaxial and biaxial phases Subsequent chapters consider spin relaxation processes using a semiclassical approach and rotational translational and internal molecular dynamics of liquid crystals The final chapter discusses two dimensional and multiple quantum NMR spectroscopies and their application in elucidating liquid crystal properties This second edition updated throughout incorporates many new references corrects typographical errors and includes new mathematical appendices **Relaxation Phenomena in Liquid Crystals** G. Agostini, 1975 **Relaxation in Complex Systems and Related Topics** I.A. Campbell, Carlo Giovannella, 2013-11-11 The aim of the workshop was to bring together

specialists in various fields where non exponential relaxation is observed in order to compare models and experimental results and to examine the general physical principles governing this type of behaviour Non exponential relaxation is found in extremely diverse physical systems all of which can be classified as complex The form of the relaxation is generally parametrized using logarithmic algebraic or stretched exponential decay forms The conceptually simplest mechanism for the non exponential decay is a spectrum of relaxation rates due to non interacting units each of which relaxes with a different intrinsic time constant Clear experimental examples can be given where for instance the relaxation of a collection of isolated polymer molecules leads to an overall stretched exponential decay Non exponential relaxation is observed in all strongly interacting complex systems structural glasses spin glasses etc where each elementary unit is in interaction with many other units

Modern Topics In Liquid Crystals: From Neutron Scattering Ferroelectricity Agnes Buka, 1993-12-17 This volume contains 19 review articles written by leading experts in the field of neutron scattering NMR dielectric spectroscopy ferroelectricity liquid crystal polymers as well as related subjects The articles cover a broad range of topics which are currently the center of focus and interest in this field The book will be useful for experienced researchers as well as students and those who want to enter the field Apart from the fact that such a publication covers a gap in the literature there is also a personal actuality This volume will be devoted to Professor L Bata who started the liquid crystal research in Hungary some 25 years ago and who is still head of the department at KFKI today He initiated a lot of new subjects in the field and supported many young scientists during these years He is celebrating his 60th birthday this year

Relaxation Processes in Molecular Excited States J. Fünfschilling, 2012-12-06 Relaxation phenomena of excited molecular states are abundant in all nature They mediate such key processes as photochemical reactions or even the pathways of ordinary chemical reactions However for a long time the main research in electronic relaxation processes was concerned with anorganic solids in part because of their great technological importance photography semiconductors in part also because these compounds were the workhorses of the solid state physicists In the last 30 years there was a steadily increasing interest in organic molecular systems first in molecular crystals and later in all forms of molecular solids glasses polymers membranes The present volume combines papers on quite different types of relaxation phenomena the type of solid studied the electronic states involved the physical processes responsible for the relaxations are all different Nevertheless after reading this book a more clear and complete picture of the phenomenon relaxation emerges that proves that this volume is more than just a collection of individual articles The volume starts with the paper Spin lattice and spin spin relaxation in photo excited triplet states in molecular crystals by Jan Schmidt Even in these seemingly simple systems of isolated guest molecules in a single crystal host the relaxation phenomena are quite involved and a very thorough investigation is necessary to find the key relaxation processes The end of the article provides a bridge to the following paper it treats interactions of two molecules dimers where resonant interactions become important and lead to new characteristic relaxation processes

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