

W. Haase
S. Wróbel (Eds.)

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Polymers, High-T_c Superconductors,
Metallic Glasses



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Relaxation Phenomena Liquid Crystals Magnetic Systems Polymers Hightc Superconductors Metallic Glaves

Shasha Hu



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

Points, Lines and Walls Maurice Kleman, 1983 *Relaxation Phenomena* Wolfgang Haase, Stanislaw Wrobel, 2014-01-15

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 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 of 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.

NMR of Liquid Crystal Dendrimers

Carlos Rodrigues da Cruz, João L. Figueirinhas, Pedro J. Sebastião, 2016-12-08. Dendrimers are hyperbranched molecules with well defined nanometer scale dimensions. Important technological applications of these systems both in biomedicine and materials science have been recently proposed. Liquid crystal dendrimers are fascinating materials that combine the characteristics of dendrimers with the anisotropic physical behaviour and molecular self organization typical of liquid crystals. This unique association of physical and chemical properties together with the possibility of multi selective functionalization put forward by dendrimers opens new perspectives for applications. Nuclear magnetic resonance (NMR) is a powerful experimental technique applied in materials science and an important tool to the study of molecular organization and dynamics. This book presents an introduction to dendrimers, properties with special insight into liquid crystal dendrimers and a detailed description of the NMR theory and experimental techniques used in the investigation of these materials. It also discusses recent NMR research results on liquid crystal dendrimers with emphasis on molecular order and dynamics studies. This book introduces the properties of dendrimers with special insight into liquid crystal dendrimers and a detailed description of NMR theory and experimental techniques used in the investigation of these materials. It also discusses results of recent NMR research on liquid crystal dendrimers with an emphasis on molecular order and dynamics studies. Advanced undergraduate and graduate students of physics, chemistry and materials science and researchers in the fields of dendrimers, liquid crystals and NMR will find the book extremely useful.

Relaxation Phenomena in Liquid Crystals G. Agostini

(Physicist), 1975. **Relaxation in Complex Systems and Related Topics** I.A. Campbell, Carlo Giovannella, 1990-11-30

Proceedings of a NATO ARW held in Turin, Italy, October 16-20, 1989. *P.G. de Gennes' Impact on Science: Solid state and*

liquid crystals Pierre-Gilles de Gennes, 2009 Deals with the scientific impact of the work of Nobel Laureate Pierre Gilles de Gennes one of the greatest scientists of the 20th century This book covers the important fields for which de Gennes was renowned solid state macroscopic random media and percolation supersolids liquid crystals polymers adhesion and friction and biophysics

Quantum Liquid Crystal Phases and Unconventional Magnetism in Electronic and Atomic Fermi Systems Benjamin Munoz Fregoso, 2010 This thesis is devoted to the study of quantum liquid crystal phases in metallic systems and itinerant Fermi systems with dipole dipole interactions It is based on published works of Refs 65 193 68 67 66 In the first part of the Thesis I present the construction of a generalization of the the McMillan de Gennes theory of nematic smectic thermal phase transition of classical liquid crystals to describe an analogous quantum phase transition in metallic systems This theory qualitatively can also describe similar quantum phase transitions in high T_c superconductors Recent experimental advances in cooling atoms with large electric or magnetic moment 125 make possible the study of novel quantum phases that arise due to the anisotropic and long range nature of the dipole dipole interactions In the next part of the Thesis I present a Landau Fermi liquid theory of one component Fermi systems with electric or magnetic dipolar interactions I use this theory to construct an order parameter theory and predict elongated Fermi surface FS along the polarization axis I calculate the temperature and interaction dependence of FS distortions For a two component system with magnetic dipole dipole interactions I predict the existence of 0 spin textures⁰ in momentum space and of prolate oblate deformed FS⁰ 9s This constitutes a new phase of matter I called ferronematic Possible observation of this phase in ultracold Fermi gases with large magnetic moments such as Dy 163 are discussed The stability of Fermi gases under attractive interactions at unitarity was also studied I now briefly summarize the content of this thesis Chapter 2 is based on Ref 65 I present a unified overview from the mean field to the unitarity regime of the stability of a trapped Fermi gas with short range attractive interactions Unlike in a system of bosons a Fermi gas is always stable in these regimes no matter how large the particle number However when the interparticle spacing becomes comparable to the range of the interatomic interactions instability is not precluded Chapter 3 is based on Ref 193 I discuss the quantum phase transition between a quantum nematic metallic state to an electron metallic smectic state in terms of an order parameter theory coupled to fermionic quasiparticles Both commensurate and incommensurate smectic or stripe cases are studied Close to the quantum critical point QCP the spectrum of fluctuations of the nematic phase has low energy fluctuating stripes I study the quantum critical behavior and find evidence that contrary to the classical case the gauge type of coupling between the nematic and smectic is irrelevant at this QCP The collective modes of the electron smectic or stripe phase are also investigated The effects of the low energy bosonic modes on the fermionic quasiparticles are studied perturbatively I find that at the nematic smectic critical point due to the critical smectic fluctuations the dynamics of the fermionic quasiparticles near several points on the Fermi surface around which it is reconstructed are not governed by a Landau Fermi liquid theory On the other hand the quasiparticles in

the smectic phase exhibit Fermi liquid behavior I also present a detailed analysis of the dynamical susceptibilities in the electron nematic phase close to this QCP the fluctuating stripe regime and in the electronic smectic phase Chapter 4 is based on Ref 68 I demonstrate the possibility of a spontaneous symmetry breaking biaxial phase in these systems which may be realized in e g gases of ultracold polar molecules or strongly magnetic atoms This biaxial nematic phase is manifest in a spontaneous distortion of the Fermi surface perpendicular to the axis of polarization I describe these dipolar interaction induced phases using Landau Fermi liquid theory Chapter 5 is based on Ref 67 I show that a homogeneous two component Fermi gas with long range dipolar and short range isotropic interactions has a ferronematic phase for suitable values of the dipolar and short range coupling constants The ferronematic phase is characterized by having a non zero magnetization and long range orientational uniaxial order The Fermi surface of majority component is elongated while the minority component is compressed along the direction of the magnetization Chapter 6 is based on Ref 66 I study the magnetic structure of the ground state of a magnetic dipolar Fermi system of spin 1/2 particles in an imbalanced partially polarized state I determine the distribution of quasiparticle spins states in momentum space The k dependent spin quantization axis is not along the spin magnetization axis but develops instead spin textures in momentum space I compute the shape of the Fermi surfaces and the effective magnetic moment of the quasiparticles at zero temperature and weak coupling I discuss realizations of this state with ultracold magnetic atoms

Magnetic Relaxation of Several Lyotropic Liquid Crystals Thomas Henry

Martin,1974 **Dynamics of Liquid Crystals in a Magnetic Field** ,2016

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Introduction

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