

Topics in Applied Physics

Volume 33

Electrets

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B. M. Caruta



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Electrets Gerhard M. Sessler, 2005-08-01 **Modern Polymer Spectroscopy** Peter Wilhelm, 2009-02-05 Containing selected presentations from both academic institutions and industry held at the 17th European Symposium on Polymer Spectroscopy ESOPS17 this volume covers the latest developments in the spectroscopic characterization of polymeric materials As such the papers cover such methods as infrared and Raman spectroscopy and imaging NMR and ESR spectroscopy dielectric spectroscopy also in combination with light and electron microscopy and near field imaging

Biomechanics of Normal and Pathological Human Articulating Joints N. Berme, Ali E. Engin, Kelo M. Correia da Silva, 1985-06-30 Proceedings of the NATO Advanced Study Institute on Biomechanics of Normal and Pathological Human Articulating Joints Estoril Portugal 20 June 1 July 1983 *Trends in Materials Science Research* B. M. Caruta, 2006

Materials science includes those parts of chemistry and physics that deal with the properties of materials It encompasses four classes of materials the study of each of which may be considered a separate field metals ceramics polymers and composites Materials science is often referred to as materials science and engineering because it has many applications Industrial applications of materials science include processing techniques casting rolling welding ion implantation crystal growth thin film deposition sintering glassblowing etc analytical techniques electron microscopy x ray diffraction calorimetry nuclear microscopy HEFIB etc materials design and cost benefit tradeoffs in industrial production of materials This book presents new research directions in a very new field which happens to be an old field as well Electromagnetic Aquametry Klaus Kupfer, 2006-01-27 Mformation about a material can be gathered from its interaction with electromagnetic waves The information may be stored in the amplitude the phase the polarisation the angular distribution of energy transportation or the spectral characteristics When retrieved from the wave certain material properties may thus be determined indirectly Compared on the one hand to direct material analysis an indirect method requires calibration and is prone to interference from undesired sources On the other hand however it permits the determination of features inaccessible by direct methods such as non destructive material interrogation high measurement speed or deep penetration depth However being a physical method the use of electromagnetic waves is still handicapped by the lack of acceptance by many chemists who are used to applying direct approaches Historically the first application of electromagnetic wave interaction with matter involved measurement of amplitude changes at a single frequency caused by material properties and it is still used today by some systems This approach was soon supplemented by single frequency phase measurements in order to avoid distortions through amplitude instabilities or parasitic reflections Such single parameter measurements of course require dependence only on one variable in the measured process and sufficient stability of all other ancillary conditions If that is not the case the single parameter measurement fails Ferroelectrics Ashim Kumar Bain, Prem Chand, 2017-01-27 Combining both fundamental principles and real life applications in a single volume this book discusses the latest research results in

ferroelectrics including many new ferroelectric materials for the latest technologies such as capacitors transducers and memories The first two chapters introduce dielectrics and microscopic materials properties while the following chapter discusses pyroelectricity and piezoelectricity The larger part of the text is devoted to ferroelectricity and ferroelectric ceramics with not only their fundamentals but also applications discussed The book concludes with a look at the future for laser printed materials and applications With over 600 references to recent publications on piezoelectric and ferroelectric materials this is an invaluable reference for physicists materials scientists and engineers

Physical Properties and Applications of Polymer Nanocomposites S C Tjong,Y.-W. Mai,2010-10-29 Polymer nanocomposites are polymer matrices reinforced with nano scale fillers This new class of composite materials has shown improved mechanical and physical properties The latter include enhanced optical electrical and dielectric properties This important book begins by examining the characteristics of the main types of polymer nanocomposites then reviews their diverse applications Part one focuses on polymer nanoparticle composites their synthesis optical properties and electrical conductivity Part two describes the electrical dielectric and thermal behaviour of polymer nanoplatelet composites whilst polymer nanotube composites are the subject of Part three The processing and industrial applications of these nanocomposite materials are discussed in Part four including uses in fuel cells bioimaging and sensors as well as the manufacture and applications of electrospun polymer nanocomposite fibers nanostructured transition metal oxides clay nanofiller epoxy nanocomposites hybrid epoxy silica rubber nanocomposites and other rubber based nanocomposites Polymer nanocomposites Physical properties and applications is a valuable reference tool for both the research community and industry professionals wanting to learn about the these materials and their applications in such areas as fuel cell sensor and biomedical technology Examines the characteristics of the main types of polymer nanocomposites and reviews their diverse applications Comprehensively assesses polymer nanoparticle composites exploring experimental techniques and data associated with the conductivity and dielectric characterization A specific section on polymer nanotube composites features electrical and dielectric behaviour of polymer carbon nanotube composites

Fundamentals of Ocean Acoustics L. Brekhovskikh,Y. Lysanov,2013-03-14 The continents of our planet have already been exploited to a great extent Therefore man is turning his sight to the vast spaciousness of the ocean whose resources mineral biological energetic and others are just beginning to be used The ocean is being intensively studied Our notions about the dynamics of ocean waters and their role in forming the Earth's climate as well as about the structure of the ocean bottom have substantially changed during the last two decades An outstanding part in this accelerated exploration of the ocean is played by ocean acoustics Only sound waves can propagate in water over large distances Practically all kinds of telemetry communication location and remote sensing of water masses and the ocean bottom use sound waves Propagating over thousands of kilometers in the ocean they bring information on earthquakes eruptions of volcanoes and distant storms Projects using acoustical tomography systems for exploration of the ocean are presently being

developed Each of these systems will allow us to determine the three dimensional structure of water masses in regions as large as millions of square kilometers

Polyimides and Other High Temperature Polymers: Synthesis, Characterization and Applications, Volume 5 Kash L. Mittal, 2009-04-24 This volume documents the proceedings of the Second International Symposium on Polyimides and Other High Temperature Polymers Synthesis Characterization and Applications held in Newark New Jersey December 3-6 2001 Polyimides possess many desirable attributes so this class of materials has found applications in many technologies ranging from

Advanced Microwave and Millimeter Wave Technologies Moumita Mukherjee, 2010-03-01 This book is planned to publish with an objective to provide a state of the art reference book in the areas of advanced microwave MM Wave and THz devices antennas and system technologies for microwave communication engineers Scientists and post graduate students of electrical and electronics engineering applied physicists This reference book is a collection of 30 Chapters characterized in 3 parts Advanced Microwave and MM wave devices integrated microwave and MM wave circuits and Antennas and advanced microwave computer techniques focusing on simulation theories and applications This book provides a comprehensive overview of the components and devices used in microwave and MM Wave circuits including microwave transmission lines resonators filters ferrite devices solid state devices transistor oscillators and amplifiers directional couplers microstrip line components microwave detectors mixers converters and harmonic generators and microwave solid state switches phase shifters and attenuators Several applications area also discusses here like consumer industrial biomedical and chemical applications of microwave technology It also covers microwave instrumentation and measurement thermodynamics and applications in navigation and radio communication

Parametric Electronics K.-H. Löcherer, C.-D. Brandt, 2013-03-07 In this chapter first the parametric principle is illustrated by two simple examples one mechanical and one electrical Then the realization of time varying reactances is explained followed by a short history of parametric electronics This survey demonstrates the importance of parametric circuits in the field of low noise microwave electronics as well as explains the organization of this book

1.1 The Parametric Principle An oscillating system comprising a single or several time varying energy storing elements is called a parametric system usually the variations are harmonic functions of time Everybody knows one example of a mechanical parametric system from his childhood namely a swing Therefore we will start with this example though as it turns out a swing is a rather complicated parametric system Fortunately the electrical parametric systems which form the object of this book are simpler Figure 1.1 shows such a swing If it is removed from its equilibrium position and the child stands on it in a fixed attitude the swing oscillates with a certain amplitude the magnitude of which decreases with time due to the mechanical friction of the system To increase the amplitude of oscillation the child changes positions during swinging it crouches and straightens in a certain way twice during one cycle of the swing

Electronic Properties of Polymers and Related Compounds H. Kuzmany, M. Mehring, Siegmund Roth, 2012-12-06 At the International Winter School on Electronic Properties of Polymers and

Related Compounds particular attention was paid to a very new and special field in polymer research It is concerned with the study of the electronic structure of polymers and with physical and chemical properties directly related to this structure In particular tutorial and research contributions on electrical electrochemical optical magnetic lattice dynamical and structural properties were presented In addition review reports on related topics such as charge transfer complexes and linear chain compounds transition metal trichalcogenides were included In two discussion meetings the special role of polyacetylene and possible present and future applications of the electronic properties of polymers as e.g. conductors or as electrodes in electrochemical cells were elucidated The electronic properties of polymers cover a wide range of research problems which are of particular interest for polymers with a 1T electron system Thus a great part of the work presented was concerned with conjugated systems Additional presentations dealt with other systems such as biopolymers photopolymers or electrets which are of significant scientific and technical importance It was demonstrated how their electronic properties are increasingly being investigated from a fundamental point of view by applying known concepts of solid state science

Cavitation and Inhomogeneities in Underwater Acoustics W. Lauterborn, 2012-12-06 **Thermal Analysis of Polymers** Joseph D. Menczel, R. Bruce Prime, 2014-07-09 Presents a solid introduction to thermal analysis methods instrumentation calibration and application along with the necessary theoretical background Useful to chemists physicists materials scientists and engineers who are new to thermal analysis techniques and to existing users of thermal analysis who wish expand their experience to new techniques and applications Topics covered include Differential Scanning Calorimetry and Differential Thermal Analysis DSC DTA Thermogravimetry Thermomechanical Analysis and Dilatometry Dynamic Mechanical Analysis Micro Thermal Analysis Hot Stage Microscopy and Instrumentation Written by experts in the various areas of thermal analysis Relevant and detailed experiments and examples follow each chapter **Equilibrium Structure and Properties of Surfaces and Interfaces** A. Gonis, G.M. Stocks, 2012-12-06 It is almost self evident that surface and interface science coupled with the electronic structure of bulk materials plays a fundamental role in the understanding of materials properties If one is to have any hope of understanding such properties as catalysis microelectronic devices and contacts wear lubrication resistance to corrosion ductility creep intragranular fracture toughness and strength of steels adhesion of protective oxide scales and the mechanical properties of ceramics one must address a rather complex problem involving a number of fundamental parameters the atomic and electronic structure the energy and chemistry of surface and interface regions diffusion along and across interfaces and the response of an interface to stress The intense need to gain an understanding of the properties of surfaces and interfaces is amply attested to by the large number of conferences and workshops held on surface and interface science Because of this need the fields of surface and interface science have been established in their own right although their development presently lags behind that of general materials science associated with bulk translationally invariant systems There are good reasons to expect this situation to change rather dramatically in

the next few years Existing techniques for investigating surfaces and interfaces have reached maturity and are increasingly being applied to systems of practical relevance New techniques are still being created which drastically widen the scope of applicability of surface and interface studies On the experimental side new microscopies are bearing fruit Biologically Inspired Physics L. Peliti, 2013-06-29 The workshop Biologically Inspired Physics was organized with the support of the NATO Scientific Affairs Division and the Directorate General for Science Research and Development of the Commission of the European Communities in order to review some subjects of physics of condensed matter which are inspired by biological problems or deal with biological systems but which address physical questions The main topics discussed in the meeting were 1 Macromolecules In particular proteins and nucleic acids Special emphasis was placed on modelling protein folding where analogies with disordered systems in condensed matter glasses spin glasses were suggested It is not clear at this point whether such analogies will help in solving the folding problem Interesting problems in nucleic acids in particular DNA deal with the dynamics of semiflexible chains with torsion and the relationship between topology and local structure They arise from such biological problems as DNA packing or supercoiling 2 Membranes This field has witnessed recent progress in the understanding of the statistical mechanics of fluctuating flexible sheets such as lipid bilayers It appears that one is close to understanding shape fluctuations in red blood cells on a molecular basis Open problems arise from phenomena such as budding or membrane fusion Experiments on model systems such as vesicle systems or artificial lipids have great potential Phenomena occurring inside the membrane protein diffusion ionic pumps were only discussed briefly **Aeroacoustic Measurements** Thomas J. Mueller, 2013-11-27 During the past three decades there has been a growing concern over the increase in noise pollution that comes as a direct result of the increased volume of automobile traffic high speed trains and larger aircraft Additional sources of noise are commonly found in air handling equipment such as fans and propellers and a variety of machinery used in construction and manufacturing A vast majority of these noise sources are the result of a given system's aeroacoustic response or sound generated by the interaction of a flow field with the given structure While barriers are commonly used to shield communities from highway and train noise and absorption materials are used to shield machinery noise there is no way to shield communities near major airports from the noise generated by low flying aircraft Tens of millions of people worldwide are affected by this airport noise problem In densely populated Europe up to 15 % of the total population is strongly influenced by airport noise Since the volume of air traffic will continue to grow so too will the problem and the number of people involved It is not surprising that many countries and communities have taken legal action to preserve the quality of life in these areas As a result the airlines airports manufacturers and governments are working together to set new standards for aircraft noise reduction In order to establish realistic goals the generation and propagation of acoustic sources must be better understood *Indian Journal of Pure & Applied Physics*, 2008 Ferroelectric Polymers Hari Singh Nalwa, 1995-06-20 This work covers the chemistry and physics of polymeric materials and their uses in the fields

of electronics photonics and biomedical engineering It discusses the relationship between polymeric supermolecular structures and ferroelectric piezoelectric and pyroelectric properties **Proton Transfer in Hydrogen-Bonded Systems**

T. Bountis, 2012-12-06 Charge transport through the transfer of protons between molecules has long been recognized as a fundamental process which plays an important role in many chemical reactions In particular proton transfer through Hydrogen H bonds has been identified as the main mechanism via which many biological functions are performed and many properties of such basic substances as proteins and ice can be understood In this volume several of these important aspects of the H bond are represented As the division in different sections already indicates present day research in proton transfer in biochemistry biology and the physics of water and ice remains highly active and very exciting Nearly a decade ago a novel approach to the study of collective proton motion in H bonded systems was proposed in which this phenomenon was explained by the propagation of certain coherent structures called solitons In the years that followed the approach of soliton dynamics was further extended and developed by many researchers around the world into a legitimate and useful method for the analysis of proton transfer in H bonded systems Dr Stephanos Pnevmatikos the original Director of this ARW was one of the pioneers in the application of soliton ideas to the study of charge transport through H bonds Having used similar concepts himself in his research on 2D lattices he was convinced energy transfer through molecular chains and that solitons can play an important role in enhancing our understanding of protonic conductivity

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