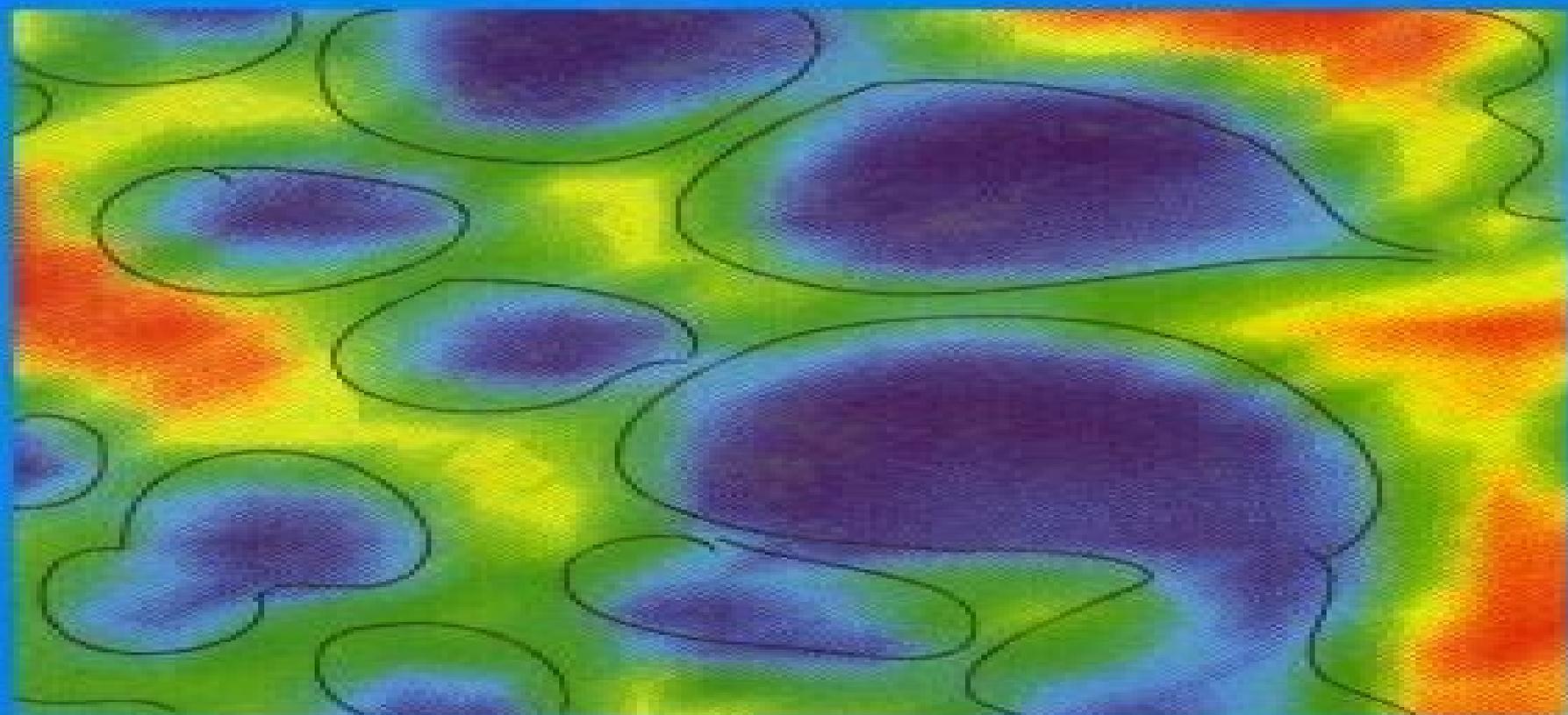


Microspectroscopic Imaging of Polymers

Jack L. Koenig



Microspectroscopic Imaging Of Polymers

J.L. Koenig



Microspectroscopic Imaging Of Polymers:

Microspectroscopic Imaging of Polymers Jack L. Koenig, 1998 This volume will be of interest to polymer chemists materials scientists and spectroscopists in industry academia and government who are working to improve the performance of engineering polymers BOOK JACKET Spectroscopy of Polymers Jack L. Koenig, 1992 **Scanning Force Microscopy of Polymers** G. Julius Vancso, Holger Schönherr, 2010-08-02 Scope of the Book Synthetic and natural polymers exhibit a complex structural and morphological hierarchy on multiple length scales 1 which determines their performance Thus research aiming at visualizing structure and morphology using a multitude of microscopy techniques has received considerable attention since the early days of polymer science and technology Various well developed techniques such as optical microscopy and different forms of electron microscopy Scanning Electron Microscopy SEM Transmission Electron Microscopy TEM Environmental Scanning Electron Microscopy ESEM allow one to view polymeric structure at different levels of magnification These classical techniques and their applications to polymers are well documented in the literature 2 3 The invention of Scanning Tunneling Microscopy STM inspired the development of Atomic Force Microscopy AFM and other forms of scanning proximity microscopes in the late 1980s 4 5 AFM unlike STM can be used to image non conducting specimens such as polymers In addition AFM imaging is feasible in liquids which has several advantages Using liquid imaging cells the forces between specimen and AFM probe are drastically reduced thus sample damage is prevented In addition the use of water as imaging medium opened up new applications aiming at imaging characterizing and analyzing biologically important systems *Spectroscopy of Polymers* J.L. Koenig, 1999-09-16 This revised and updated Second Edition of the best selling reference text is essential reading for students and scientists who seek a thorough and practical introduction to the field of polymer spectroscopy Eleven chapters cover the fundamental aspects and experimental applications of the primary spectroscopic methods The advantages and disadvantages of the various techniques for particular polymer systems are also discussed The goal of the author is not to make the reader an expert in the field but rather to provide enough information about the different spectroscopic methods that the reader can determine how the available techniques can be used to solve a particular polymer problem This Second Edition contains new and updated information on techniques in IR and NMR as well as an all new chapter on Mass Spectrometry Polymer Microscopy Linda Sawyer, David T. Grubb, Gregory F. Meyers, 2008-12-24 Polymer Microscopy Third Edition is a comprehensive and practical guide to the study of the microstructure of polymers and is the result of the authors many years of academic and industrial experience To address the needs of students and professionals from a variety of backgrounds introductory chapters deal with the basic concepts of both polymer morphology and processing and microscopy and imaging theory The core of the book is more applied with many examples of specimen preparation and image interpretation leading to materials characterization Microscopy is applied to the characterization of a wide range of polymer systems including fibers films engineering resins

and plastics composites nanocomposites polymer blends emulsions and liquid crystalline polymers Light microscopy atomic force microscopy and scanning and transmission electron microscopy techniques are all considered as are emerging techniques such as compositional mapping in which microscopy is combined with spectroscopy This extensively updated and revised Third Edition closes with a problem solving guide which gives a systematic framework for deciding on suitable approaches to the characterization of polymer microstructure Key Features Revised and updated this Third Edition remains the gold standard for information on the characterization of polymer microstructure Presents a wide variety of polymer systems and characterization techniques Covers the major advances in microscopy and polymers since the publication of the Second Edition in 1996 Describes new methods for use with the SPM and related to advances in cryo TEM as well as new polymer materials such as nanocomposites Includes both basic and applied topics making this book ideal as a professional reference and as a teaching text

Applications of Scanned Probe Microscopy to Polymers James Daryl Batteas, Chris A. Michaels, Gilbert C. Walker, 2005 *Applications of Scanned Probe Microscopy to Polymers* stresses the analysis of polymer and biopolymer surfaces using the ever expanding methodologies of scanned probe microscopies This book includes studies of optical properties by near field methodologies local mechanical properties of polymer films by AFM the dynamics and mechanics of single molecules probed by AFM and methodologies for enhanced imaging modes A primary focus of this book is the quantitative measurement of surface properties by scanned probe techniques which illustrates how the field has evolved and what new challenges lie ahead *Applications of Scanned Probe Microscopy to Polymers* will be valuable to students and professionals looking for studies that illustrate what types of polymer material properties may be probed by scanned probe microscopies

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

Plastics Additives Jan C. J. Bart, 2006 Contains an outline of the principles and characteristics of relevant instrumental techniques provides an overview of various aspects of direct additive analysis by focusing on an array of applications in R and D production quality control and technical service

Polymer Morphology Qipeng Guo, 2016-03-21 With a focus on structure property relationships this book describes how polymer morphology affects properties and how scientists can modify them The book covers structure development theory simulation and processing and discusses a broad range of techniques and methods Provides an up to date comprehensive introduction to the principles and practices of polymer morphology Illustrates major structure types such as semicrystalline morphology surface induced polymer crystallization phase separation self assembly deformation and surface topography Covers a variety of polymers such as homopolymers block copolymers polymer thin films polymer blends and polymer

nanocomposites Discusses a broad range of advanced and novel techniques and methods like x ray diffraction thermal analysis and electron microscopy and their applications in the morphology of polymer materials

Atomic Force Microscopy of Polymers Sergei N. Magonov, Natalya Yerina, Sergey Belikov, 2009-10-02 Atomic Force Microscopy of Polymers From High Resolution Imaging to Probing Local Mechanical Properties gives background information on how the atomic force microscope AFM was developed how it is used for characterization techniques and how it complements such techniques The book details how to properly use this instrument including preparing samples and developing theoretical models with the information from AFM generated images

The Microscope Arthur L. E. Barron, 2005 Vol 3 adds section The Entomological monthly

Vibrational Spectroscopy of Polymers Neil J. Everall, John M. Chalmers, Peter R. Griffiths, 2007-06-05 In this book measurements using vibrational spectroscopy techniques for both the chemical and physical characteristics of polymers are described alongside chapters covering spectra structure correlations and spectra calculation Special chapters deal with composites and conducting polymers while others discuss the role of vibrational spectroscopy in understanding polymer weathering and degradation and determining the optical dielectric and solar and thermal properties of polymers Dichroism measurement methods important in understanding product performance are covered as well as practical methods for determining molecular orientation linear biaxial and trichroic determinations for polymers as are dynamic measurement systems

Polymer Characterization Daria Bukharina, Paraskevi Flouda, Vladimir Tsukruk, 2025-09-01 The book provides a concise and practically driven overview of fundamentals and current experimental practices in the field of characterization of modern polymer biopolymer materials and related composites Such guide is important for experienced undergraduate students and new graduate students starting their adventure into polymer materials research It helps students with quick introduction into theoretical basics guidance on experimental routines specimen preparations data analysis resolution and limitations of experimental measurements and common issues and artifacts It includes most popular spectroscopic and microscopic techniques for understanding chemical composition microstructure and morphology and fundamental properties of solid polymeric materials including mechanical viscoelastic thermomechanical surface and optical properties All chapters are accompanied by examples of specific study cases experimental problems and questions for solving and self testing as well as laboratory practice videos collected by the authors in their labs Includes long lasting and in depth research experience in the field of polymer characterization of a wide variety of polymers biopolymers and composites Contains guide to training practical use data analysis limitations and resolution common experimental routine parameters and other practical considerations such as applicability in real lab environment Includes examples of study cases questions and problems for student self testing and analysis Includes examples of prominent artifacts and data corruptions and how to avoid and correct those Shows practical lessons in the video collected by the authors with specimen preparation experimental parameters selection measuring process and data collection

all in real time **JJAP** ,2006 Polymer Spectroscopy J. G. P. Goossens, Jan A. J. Jansen, 2005 This book is based on a number of lectures and posters presented at the 16th European Symposium on Polymer Spectroscopy ESOPS16 held in Rolduc Kerkrade The Netherlands The articles cover a broad range of spectroscopic techniques applied to wide variety of application areas such as plastic electronics biopolymers interfaces process analysis engineering plastics and coatings In addition this issue contains contributions discussing novel combinations of techniques developed during the last decade

FTIR Microspectroscopy Nouredine Abidi, 2022-01-04 Fourier Transform Infrared microspectroscopy FTIR was first developed by William Coblentz in 1905 for analytical purposes It has been established as a powerful analytical method to analyze a wide range of materials The most convenient way to analyze the molecular structure was to prepare KBr pellets with small amount of chemical species Currently the development of the Universal Attenuated Total Reflectance UATR allows the use of ZnSe Diamond crystal to acquire FTIR spectra directly from the sample with no special preparation These traditional FTIR analyses have been made with devices capable of performing single measurements thus providing a single IR spectrum of the sample Recent major technological development in FTIR instrumentation was development of microscopes and imaging systems These devices are now capable of imaging larger sample area providing not only spectroscopic information but also spatial distributional information In addition the development of Focal Point Array FPA has made FTIR imaging an emerging area of chemical imaging research The aim of this book is to summarize in a single document the research work that is being performed using UATR and IR imaging in selected emerging applications in plant materials and biological samples This book provides the readers new knowledge updates information emerging applications and understanding of the potential use of FTIR Microspectroscopy Japanese Journal of Applied Physics ,2006 *Chemical Abstracts* ,2002 **Hyperspectral and Filter-based Raman Microscopy and Imaging** Kenneth Alan Christensen, 1997 **The Cumulative Book Index** ,1999

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