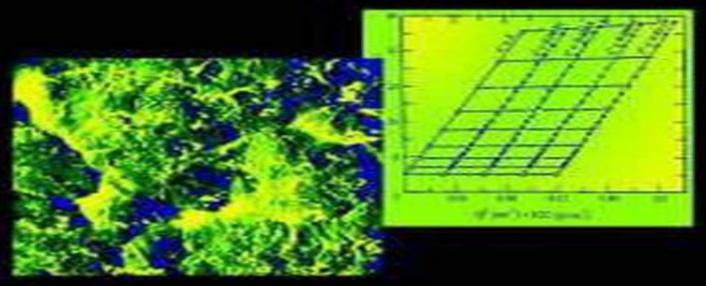


# Techniques for Polymer Organisation and Morphology Characterisation



Edited by

R.A. Pethrick and C. Viney

# **Techniques For Polymer Organisation And Morphology Characterisation**

Wenbin Ji

# **Techniques For Polymer Organisation And Morphology Characterisation:**

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techniques MIPs as sensor components MIPs as traps for medical and bioremediation MIPs as catalysts and artificial enzymes and MIPs as components of drug delivery systems All chapters of the handbook follow a common structure interest of the MIP approach for that application specific aspects of the synthesis of MIPs for this aim requirements and general recipes representative examples of MIPs and their performance for that application a look to the future Characterization Dan Campbell, Richard A. Pethrick, Jim R. White, 2017-12-21 Discerning the properties of polymers and polymer based materials requires a good understanding of characterization This revised and updated text provides a comprehensive survey of characterization methods within its simple concise chapters Polymer Characterization Physical Techniques provides an overview of a wide variety of characterization methods which makes it an excellent textbook and reference It starts with a description of basic polymer science providing a solid foundation from which to understand the key physical characterization techniques The authors explain physical principles without heavy theory and give special emphasis to the application of the techniques to polymers with plenty of illustrations Topics covered include molecular weight determination molecular and structural characterization by spectroscopic techniques morphology and structural characterization by microscopy and diffraction and thermal analysis This edition contains a new chapter on surface analysis as well as some revised problems and solutions The concise treatment of each topic offers even those with little prior knowledge of the subject an accessible source to relevant simple descriptions in a well organized format **Characterization Methods** Mastura Raheel, 2017-09-29 This work details current advances in assessing the characteristics of polymers single fibres and fibrous systems and associated processes based on evolving theories in the physical chemical and mechanical sciences It focuses on recent developments in selected characterization methods such as Fourier transform infrared spectroscopy Fourier transform nuclear magnetic resonance electron diffraction x ray diffraction and electron microscopy applicatble to polymers fibres and textiles **Polymer Microscopy** Linda Sawyer, David T. Grubb, 2013-03-09 A practical guide to the study and understanding of the structure of synthetic polymer materials using the complete range of microscopic techniques. The major part of the book is devoted to specimen preparation and applications. New applications and additional references provide a critical update Polymer Chemistry Essentials Siddharth Batra, 2025-02-20 Polymer Chemistry Essentials serves as a comprehensive guide to understanding the fundamental principles theories and applications of polymers Written by esteemed experts in polymer science we offer a systematic approach to exploring the structure synthesis properties and characterization of polymers making it an essential resource for students researchers and professionals alike We cover a wide range of topics beginning with an introduction to the basic concepts of polymer chemistry including definitions classifications and historical developments We then delve into the molecular structure of polymers discussing polymerization reactions polymer architectures and molecular weight determination Our book also explores the properties of polymers including mechanical thermal electrical and optical properties as well as various polymer

characterization techniques In addition to discussing the fundamentals we cover advanced topics such as polymer blends composites degradation stability and processing Each chapter is structured with detailed explanations examples and illustrations to facilitate learning and understanding We also provide insights into the latest research trends and emerging technologies making it a valuable reference for staying updated in polymer science and engineering With comprehensive coverage clear explanations and practical insights Polymer Chemistry Essentials is an indispensable resource for anyone looking to deepen their understanding of polymers and their applications across various industries Whether used as a textbook for academic courses or as a reference for professionals our book offers valuable insights into the fascinating world of polymer chemistry Polymer Surface Characterization Luigia Sabbatini, 2014-07-28 Polymer Surface Characterization provides a comprehensive approach to the surface analysis of polymers of technological interest by means of modern analytical techniques Basic principles operative conditions applications performance and limiting features are supplied together with current advances in instrumental apparatus Each chapter is devoted to one technique and is self consistent the end of chapter references would allow the reader a quick access to more detailed information After an introductory chapter techniques that can interrogate the very shallow depth of a polymer surface spanning from the top few angstroms in secondary ions mass spectrometry to 2 10 nm in X ray photoelectron spectroscopy are discussed followed by Fourier transform infrared spectroscopy and chapters on characterization by scanning probe microscopy electron microscopies wettability and spectroscopic ellipsometry

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