Analytical Polymer Rheology

Structure - Processing - Property Relationships

Charles L. Rohn



Sabu Thomas, Raju Thomas, Ajesh K Zachariah, Raghvendra Kumar Mishra

Analytical Polymer Rheology Charles L. Rohn,1995-01-01 Descriptions of classical theories that make the connection between rheological parameters and molecular structure of all states of matter are presented The book demonstrates how to use rheology to probe molecular and morphological structures and interpret data Nonlinear Polymer Rheology Shi-Qing Wang,2018-02-06 Integrating latest research results and characterization techniques this book helps readers understand and apply fundamental principles in nonlinear polymer rheology The author connects the basic theoretical framework with practical polymer processing which aids practicing scientists and engineers to go beyond the existing knowledge and explore new applications Although it is not written as a textbook the content can be used in an upper undergraduate and first year graduate course on polymer rheology Describes the emerging phenomena and associated conceptual understanding in the field of nonlinear polymer rheology Incorporates details on latest experimental discoveries and provides new methodology for research in polymer rheology Integrates latest research results and new characterization techniques like particle tracking velocimetric method Focuses on the issues concerning the conceptual and phenomenological foundations for polymer rheology Has a companion website for readers to access with videos complementing the content within several chapters

Thermal and Rheological Measurement Techniques for Nanomaterials Characterization Sabu Thomas, Raju Thomas, Ajesh K Zachariah, Raghvendra Kumar Mishra, 2017-05-23 Thermal and Rheological Measurement Techniques for Nanomaterials Characterization Second Edition covers thermal and rheological measurement techniques including their principle working methods sample preparation and interpretation of results This important reference is an ideal source for materials scientists and industrial engineers who are working with nanomaterials and need to know how to determine their properties and behaviors Outlines key characterization techniques to determine the thermal and rheological behavior of different nanomaterials Explains how the thermal and rheological behavior of nanomaterials affect their usage Provides a method orientated approach that explains how to successfully use each technique **Polymer Synthesis: Theory and Practice** Dietrich Braun, Harald Cherdron, Matthias Rehahn, Helmut Ritter, Brigitte Voit, 2006-10-14 The first English edition of this book was pubUshed in 1971 with the late Prof Dr Werner Kern as coauthor In 1997 for the preparation of the third edition Prof Dr Helmut Ritter joined the team of authors and in 2001 Prof Dr Brigitte Voit and Prof Dr Matthias Rehahn complemented this team The change in authors has not altered the basic concept of this 4th edition again we were not aimed at compiling a comprehensive collection of recipes In stead we attempted to reach a broader description of the general methods and techniques for the synthesis modification and characterization of macromo cules supplemented by 105 selected and detailed experiments and by sufficient theoretical treatment so that no additional textbook be needed in order to under stand the experiments In addition to the preparative aspects we have also tried to give the reader an impression of the relation of chemical structure and mor phology of polymers to their properties as well as of areas of their application

Properties of Polymers D.W. van Krevelen, Klaas te Nijenhuis, 2009-02-09 This authoritative widely cited book has been used all over the world Properties of Polymers Fourth Edition incorporates the latest developments in the field while maintaining the core objectives of previous editions to correlate properties with chemical structure and to describe methods that permit the estimation and prediction of numerical properties from chemical structure i e nearly all properties of the solid liquid and dissolved states of polymers Extends coverage of critical topics such as electrical and magnetic properties rheological properties of polymer melts and environmental behavior and failure Discusses liquid crystalline polymers across chapters 6 15 and 16 for greater breadth and depth of coverage Increases the number of supporting illustrations from approximately 250 in the previous edition to more than 400 to further aid in visual understanding Properties and Performance of Engineering Ceramics and Composites VI, Volume 32, Issue 2 Dileep Singh, Jonathan Salem, 2011-10-11 This book is a collection of papers from The American Ceramic Society s 35th International Conference on Advanced Ceramics and Composites held in Daytona Beach Florida January 23 28 2011 This issue includes papers presented in the Mechanical Behavior and Performance of Ceramics fracture mechanics modeling and testing tribological properties applications and processing Introduction to Polymer Rheology and Processing Nicholas P. Cheremisinoff, 2018-01-18 An Introduction to Polymer Rheology and Processing is a practical desk reference providing an overview of operating principles data interpretation and qualitative explanation of the importance and relationship of rheology to polymer processing operations It covers full scale processing operations relating industrial processing operations and design methodology to laboratory scale testing Hundreds of design formulas applicable to scaling up the processing behavior of polymeric melts are presented The book also provides a working knowledge description of major rheological test methods useful in product development and includes a useful glossary of polymer and test method instrumentation definitions Lavishly illustrated and featuring numerous sample calculations and modeling approaches An Introduction to Polymer Rheology and Processing is a must have book for polymer engineers and rheologists An Introduction to Plastics Hans-Georg Elias, 2003-11-07 Die Leser mussten lange warten Jetzt endlich zehn Jahre nach Erscheinen der ersten Auflage gibt es die grundlegend berarbeitete Neuauflage dieses Klassikers inhaltlich erweitert und neu strukturiert Doch an seinem Konzept hat sich nichts ge ndert Es ist eine pr zise aber nicht mathematische Einf hrung in das Gebiet der Kunststoffe Die konomische Bedeutung von Kunststoffen bzw Polymeren ist weiterhin enorm H chste Zeit also fr die Neuauflage dieser erfolgreichen Einf hrung Sie gibt einen aktuellen und ebenso klaren wie detaillierten berblick ber Rohstoffe Herstellungsverfahren und die Materialeigenschaften der Kunststoffe Letztere werden zu den molekularen und supermolekularen Eigenschaften der Polymere in Beziehung gesetzt Die Kapitel zu Polymerverbindungen Morphologie Flie verhalten und Verarbeitung wurden gegen ber der ersten Auflage erheblich erweitert Neu hinzugekommen sind Abschnitte zur elektrischen Leitf higkeit sowie zu nicht linearen optischen Eigenschaften Auch wer ber die neuesten Entsorgungsverfahren Bescheid wissen m chte wird von

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