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An Introduction to Polymer Rheology and Processing

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Chang Dae Han



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Introduction to Polymer Rheology Montgomery T. Shaw, 2012-01-12 An introduction to the rheology of polymers with simple math Designed for practicing scientists and engineers interested in polymer rheology science education consulting or research and development Introduction to Polymer Rheology is a comprehensive yet accessible guide to the study of the deformation and flow of matter under applied stress Often considered a complicated topic for beginners the book makes grasping the fundamentals of polymer rheology easy by presenting information in an approachable way and limiting the use of complex mathematics By doing so this introductory overview provides readers with easy access to the key concepts underlying the flow behavior of polymer melts solutions and suspensions Incorporating sample problems that are worked through and explained on the page as well as numerous practice problems to gauge learning comprehension the book prepares new students and practitioners for moving on to more advanced concepts Comprising twelve chapters the book covers stress velocity and rate of deformation the relationship between stress and rate of deformation Newtonian fluid generalized Newtonian fluids normal stresses and elastic behavior experimental methods small and large strain the molecular origins of rheological behavior elementary polymer processing concepts quality control in rheology and the flow of modified polymers and those with

supermolecular structure The essential reference for accurately interpreting polymer rheology data Introduction to Polymer Rheology provides readers with an elementary understanding of the key issues and modern approaches to resolving problems in the field An Instructor's Guide with answers to select problems in the text 60 new problems with full solutions hints for effective presentation of the material in the text and an errata listing is available for professors using the book as a course textbook

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 bearbeitete Neuauflage dieses Klassikers inhaltlich erweitert und neu strukturiert Doch an seinem Konzept hat sich nichts geändert Es ist eine präzise aber nicht mathematische Einführung in das Gebiet der Kunststoffe Die ökonomische Bedeutung von Kunststoffen bzw Polymeren ist weiterhin enorm Höchstes also für die Neuauflage dieser erfolgreichen Einführung Sie gibt einen aktuellen und ebenso klaren wie detaillierten Überblick über 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 Fließverhalten und Verarbeitung wurden gegenüber der ersten Auflage erheblich erweitert Neu hinzugekommen sind Abschnitte zur elektrischen Leitfähigkeit sowie zu nicht linearen optischen Eigenschaften Auch wer über die neuesten Entsorgungsverfahren Bescheid wissen möchte wird von Elias bestens informiert Ein wesentlicher Grund für den Erfolg der Voraufgabe sollte auch ihre Fortsetzung zum Bestseller werden lassen der klare mitunter brillante Stil des Autors So komplex die Materie auch sein mag Elias findet die angemessene sprachliche Form Dass Verständlichkeit in diesem Buch ganz groß geschrieben wird belegen auch sein Aufbau sowie der sehr praktische übersichtliche Index Ob Chemiker Physiker Materialwissenschaftler Ingenieure oder Techniker Wer sich einen Überblick über Kunststoffe und Polymere verschaffen möchte dürfte kaum ein geeigneteres Buch finden

Rheology for Polymer Melt Processing J.-M. Piau, J.-F. Agassant, 1996-10-10 This book presents the main results obtained by different laboratories involved in the research group Rheology for polymer melt processing which is associated with French universities schools of engineering and the CNRS Centre National de la Recherche Scientifique France The group comprises some 15 research laboratories of varied disciplines chemistry physics material sciences mechanics mathematics but with a common challenge viz to enhance the understanding of the relationships between macromolecular species their rheology and their processing Some crucial issues of polymer science have been addressed correlation of viscoelastic macroscopic bulk property measurements and models slip at the wall extrusion defects correlation between numerical flow simulations and experiments Features of the book The book is unique in that it allows one to grasp the key issues in polymer rheology and processing at once through a series of detailed state of the art contributions which were previously scattered throughout the literature Each paper was reviewed by experts and the book editors and some coordination was established in order to achieve a readable and easy access style Papers have been grouped in sections covering successively Molecular dynamics Constitutive equations and numerical modelling Simple and

complex flows Each paper can be read independently Since the book is intended as an introduction to the main topics in polymer processing it will be of interest to graduate students as well as to scientists in academic and industrial laboratories

Rheology Applied in Polymer Processing B.R. Gupta,2022-11-17 This book covers a wide range of topics in polymer rheology These are Basic Principles parameters systems and applied mathematical models used in the rheological studies Melt flow analysis of different non Newtonian fluids in laminar flow transition between laminar and turbulent flow and modified Reynolds number The effects of different physical and molecular parameters on purely viscous rheological response of polymer melts and solutions Principles of rheometry and different types of viscometers and on line rheometers The static and dynamic viscoelastic response of the polymer melts and solutions viscoelasticity mechanical models and Boltzmann superposition principle Molecular structure viscoelasticity relationship and linear and non linear viscoelasticity Effects of different processes materials parameters like temperature fillers micro and nano fillers and molecular parameters like MW MWD The role of rheology in polymer processing in different equipment Modified power law constants and two range power law constants for a large number of polymers rheology software program in Java comparison of different polymer rheological models using the rheology software and answers to the problems The book will be very useful to both undergraduate and postgraduate students as well as teachers and practicing rheologists *A Handbook of Elementary Rheology* Howard A.

Barnes,2000 **Rheology and Processing of Polymeric Materials** Chang Dae Han,2007-05-16 Volume 1 presents first fundamental principles of the rheology of polymeric fluid including kinematics and stresses of a deformable body the continuum theory for the viscoelasticity of flexible homogeneous polymeric liquids the molecular theory for the viscoelasticity of flexible homogeneous polymeric liquids and the experimental methods for the measurement of the rheological properties of polymeric liquids The materials presented are intended to set a stage for the subsequent chapters by introducing the basic concepts and principles of rheology from both phenomenological and molecular perspectives of structurally simple flexible and homogeneous polymeric liquids Next this volume presents the rheological behavior of structurally complex polymeric materials including miscible polymer blends block copolymers liquid crystalline polymers thermoplastic polyurethanes immiscible polymer blends particulate filled polymers organoclay nanocomposites molten polymers with dissolved gas and thermosets *Principles of Polymer Engineering* N. G. McCrum,C. P. Buckley,C. B. Bucknall,2026-02-10 Polymers are now an important class of engineering material present in almost every manufactured product They also have distinctive physical properties and manufacturing routes in many respects quite different from those of other engineering materials such as metals Hence the subject of engineering with polymers has become an essential ingredient of the skill set of many of today's professional engineers This book is designed to help teaching and learning of the subject of Polymer Engineering It is especially focussed on the relevant aspects of materials science mechanical engineering and production engineering at a level of expertise typical of advanced undergraduate or postgraduate students of engineering or materials science The

authors aim is to provide an educational tool not only conveying information but also engaging the reader and developing their confidence and skills by applying in the polymer engineering context their wider knowledge of chemistry materials physics and mathematics The book s coverage ranges from what polymers are and how they are structured through their distinctive mechanical and thermal properties to the product manufacturing processes available and the principles of product design with them This is the third edition of a book that has been widely used in university education of engineers and materials scientists for 36 years It includes many new features important to the polymer engineer of today Examples are greater emphasis on environmental concerns and how these are addressed inclusion of bio sourced polymers and use of natural fibres as reinforcement and the rapidly developing additive manufacturing production routes

Transactions of the American Nuclear Society American Nuclear Society,1958

Rheology and Processing of Polymeric Materials Chang Dae Han,2007-06-04 Volume 2 presents the fundamental principles related to polymer processign operations including the processing of thermoplastic polymers and thermosets The objective of this volume is not to provide recipies that necessarily guarantee better product quality Rather emphasis is placed on presenting a fundamental approach to effectively analyze processing operations The specific polymer processing operations for thermoplastics include plasticating single screw extrusion morphology evolution during compounding of polymer blends compatibilization of immiscible polymer blends wire coating extrusion fiber spinning tubular film blowing coextrusion and thermoplastic foam extrusion The specific polymer processing operations for thermosets include reaction injection molding pultrusion of fiber reinforced thermosets and compression molding of thermoset composites

A Brief Introduction to the Rheology of Polymeric Fluids Arkady I. Leonov,2008-05-01 Polymer Rheology is a fundamental discipline underlying modern polymer processing The term rheology could be generally defined as the science of deformation and flow for non traditional materials that display a nonlinear combination of viscous elastic and plastic effects such as polymers food stuffs lubricating greases etc The rheology of polymeric liquids is the most complicated part of general rheology As any scientific discipline it consists of coupled theoretical and experimental parts The most difficult part for the first studies of polymer rheology is the theory This textbook attempts to overcome this difficulty and provide the readers with a balanced knowledge of modern types of continuum theories experiments and some applications

Applied Polymer Science Ulf W. Gedde,Mikael S. Hedenqvist,Minna Hakkarainen,Fritjof Nilsson,Oisik Das,2021-10-29 This companion volume to Fundamental Polymer Science Gedde and Hedenqvist 2019 offers detailed insights from leading practitioners into experimental methods simulation and modelling mechanical and transport properties processing and sustainability issues Separate chapters are devoted to thermal analysis microscopy spectroscopy scattering methods and chromatography Special problems and pitfalls related to the study of polymers are addressed Careful editing for consistency and cross referencing among the chapters high quality graphics worked out examples and numerous references to the specialist literature make Applied Polymer Science an essential

reference for advanced students and practicing chemists physicists and engineers who want to solve problems with the use of polymeric materials

Rheology and Processing of Polymeric Materials: Volume 1: Polymer Rheology Chang Dae Han,2007 Volume 1 presents first fundamental principles of the rheology of polymeric fluid including kinematics and stresses of a deformable body the continuum theory for the viscoelasticity of flexible homogeneous polymeric liquids the molecular theory for the viscoelasticity of flexible homogeneous polymeric liquids and the experimental methods for the measurement of the rheological properties of polymeric liquids The materials presented are intended to set a stage for the subsequent chapters by introducing the basic concepts and principles of rheology from both phenomenological and molecular perspectives of structurally simple flexible and homogeneous polymeric liquids Next this volume presents the rheological behavior of structurally complex polymeric materials including miscible polymer blends block copolymers liquid crystalline polymers thermoplastic polyurethanes immiscible polymer blends particulate filled polymers organoclay nanocomposites molten polymers with dissolved gas and thermosets

Principles of Polymer Engineering Rheology James Lindsay White,1991-01-16 Provides the basic background needed by engineers to determine experimentally and interpret the rheological behavior of polymer melts including not only traditional pure melts but also solutions and compounds containing anisotropic fiber or disc or colloidal particles and apply it to analyze flow in processing operations Experimental foundations of modern rheology and rheo optics and the interpretation of experimental data are covered which also develops the fundamentals of continuum mechanics and shows how it may be applied to devise methods for measurement of rheological properties formulation of three dimensional stress deformation relationships and analysis of flow in processing operations Also discusses the structure of polymers and considers rheological behavior in terms of structure Constitutive equations relating stress to deformation history in non Newtonian fluids and their applications are discussed Each chapter presents an overview of the subject matter and then develops the material in a pedagogical manner

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