

Download Free Fließverhalten Von Stoffen Und Stoffgemischen

Karl Jasmund, Gerhard Lagaly

Developments in Ionic Polymers—2 A.D. Wilson, Prosser. 2012-12-06 Ionic polymers, like elephants, are easier to recognise than to define. Several methods of classification have been attempted but none is wholly satisfactory because of the extreme diversity of ionic polymers, which range from the organic, water-soluble polyelectrolytes, through hydrogels and ionomer carboxylate rubbers, to the almost infusible inorganic silicate minerals. For this reason, a general classification is not only difficult, but has minimal utility. However, there are some characteristics of these materials that should be highlighted. The role of counterions is the significant one. These ions, either singly or as clusters, take part in the formation of ionic bonds which have a varying structural role. Often they act as crosslinks, but in the halato-polymers the ionic bonds form an integral part of the polymer backbone itself. Conversely, in polymers containing covalent crosslinks, such as the ion-exchange resins, the counterions have virtually no structural role to play, since they dwell in cage-like structures without affecting the crosslinking, and are readily exchanged. They are, perhaps, best described as ion-containing polymers rather than structural ionic polymers. Another crucial factor is the role of water in ionic polymers. The presence of ionic bonds means that there is a tendency for these materials to interact with water. Where the ionic polymer contains a high proportion of ionic units, it acts as a hydrogel and may be highly soluble. Such interactions with water decrease sharply as the ionic content is reduced, though even then water can act as a plasticiser.

Synthetic Water-soluble Polymers in Solution Esen A. Bekturov, Z. Kh Bakauova. 1986

The Rheology Handbook Thomas Mezger. 2020-08-25 Already in its 5th edition, this standard work describes the principles of rheology clearly, vividly and in practical terms. The book includes the rheology of additives in waterborne dispersions and surfactant systems. Not only it is a great reference book, it can also serve as a textbook for studying the theory behind the methods. The practical use of rheology is presented in the areas quality control, production and application, chemical and mechanical engineering, materials science and industrial research and development. After reading this book, the reader should be able to perform tests with rotational and oscillatory rheometers and interpret the results correctly.

Thermoplastic Elastomers Günter Scholz,Manuela Gehringer.2021-08-02 The book provides a qualified and fast view into the world of TPE including the difference to rubber materials. It describes their classification as they are presented in the market, characterization, manufacturing, processing and behavior. Aside from the self-learning option, it is a companion to seminars and studies about elastomers.

Water-Soluble Polymers for Petroleum Recovery G.A. Stahl,D.N. Schulz.2012-12-06 We both found ourselves working on water-soluble polymers for oil recovery in the early 1980' s. Our previ ous backgrounds i nvo lved the synthesi sand characteri zati on of hydrocarbon polymers for everythi ng from elastomers to plastics. As such, we were largely unprepared for the special difficulties associated with water soluble polymers in genera l, and thei ruse in enhanced oi l recovery (EOR) , in parti cul ar. Oil patch applications have a jargon and technical heritage quite apart from that usually experienced by traditional polymer scientists. At that time, no books were available to help us get up to speed in the polymers for oil recovery field. Since then, there have been a number of symposia on this topic, but still few books, especially from the polymer (rather than the field-applications) perspective. Synthetic water soluble/swellable polymers have commercial importance in such application as water treatment, cosmetics, and foods. Yet, these polymers have not received the scientific/technological attention they deserve. The application of water soluble polymers to oil recovery has, in fact, highlighted the need for new water based materials, and a fundamental understanding of their structure and use. Interest has been spurred not only for the potenti a l economi c credi ts from enhanced oi l recovery and an augmented polymers business, but also by the challenge of designing water soluble polymers for harsh environments.

Pigment Processing Juan M. Oyarzún.2000

Einfluss der Granulometrie von Feinstoffen auf die Rheologie von Feinstoffleimen Carsten Geisenhanslüke.2009

Lackeigenschaften messen und steuern Georg Meichsner,Thomas G. Mezger,Jörg Schröder.2016-08-26 Um die speziellen Funktionen und Eigenschaften moderner Beschichtungen zu optimieren, ist ein Verständnis ihrer physikalisch-chemischen Zusammenhänge unerlässlich. Genau dieses Verständnis schaffen die Autoren dieses Standardwerkes nun bereits in der zweiten Aufl age: Sie vermitteln wichtiges Basiswissen in den Bereichen Rheologie, Grenzfl ächen und Kolloide und schlagen konsequent den Bogen von der Theorie hin zur anwendungstechnischen Praxis. Ein unverzichtbares Lehrbuch für Lackingenieure, Chemiker und Techniker!

Makromolekulare Chemie LECHNER,GEHRKE,NORDMEIER.2013-09-03 Dieses Lehrbuch der makromolekularen Chemie ist aus einer fruchtbaren Zusammenarbeit der Abteilungen Technische Chemie der Universitlit Greifswald und Physikalische Chemie der Universitlit Osnabriick im Zeitraum November 1991 bis Mai 1993 entstanden. Das Kapitel 5.5 Verarbeitung von MakromolekUlen ist von R. Heering, Universitlit Greifswald, das Kapitel7.5 Alterung und Alterungsschutz von Makromolekullen von S. JovanoviC, Universitiit Belgrad, und das Kapitel 8 Wiederverwertung von Kunststoffen von U.

Guhr, A. Lappe, D. Vesper und B. Willenberg, EWvK, Wiesbaden verfaßt worden. Wir danken den Kollegen für ihre ausgezeichneten Beiträge. Die Kapitel 3, 6 und 7.1 -7.4 wurden von K. Gehrke, die Kapitel 2, 4.1 -4.2 und 5.1 - 5.3 von E. Nordmeier, das Kapitel 5.4 von M.D. Lechner und das Kapitel 4.3 von M.D. Lechner und E. Nordmeier verfaßt. Vorrangiges Ziel des vorliegenden Werks war die Bereitstellung eines bislang nicht verfügbaren echten Lehrbuchs der Physik und Chemie der Makromoleküle für Studenten, Chemiker und Physiker. Hierbei wurde allergrößter Wert darauf gelegt, daß die Phänomene, Theorien und experimentellen Methoden der makromolekularen Chemie von Grund auf dargestellt werden. Der vorgesehene Umfang des Lehrbuchs ließ allerdings keinen grundlegenden Exkurs über die allgemein verwendeten physikalisch-chemischen Methoden wie UV /VIS-, IR- und NMR-Spektroskopie zu; hierzu wird auf die gängigen Lehrbücher der physikalischen Chemie verwiesen. Bei diesen Methoden werden lediglich die Anwendungen in der makromolekularen Chemie beschrieben.

Food Physics Ludger O. Figura, Arthur A. Teixeira. 2023-06-06 This is the first textbook in this field of increasing importance for the food and cosmetics industries. It is indispensable for future students of food technology and food chemistry as well as for engineers, technologists and technicians in the food industries. It describes the principles of food physics starting with the very basics - and focuses on the needs of practitioners without omitting important basic principles. It will be indispensable for future students of food technology and food chemistry as well as for engineers, technologists and technicians in the food industries. Food Physics deals with the physical properties of food, food ingredients and their measurement.

Progress and Trends in Rheology II H. Giesekus, P. Mitschka, M.F. Hibberd, P. Riha, S. Sestak. 2013-04-17 Following an invitation from the Czechoslovakian The scientific programme consisted of 14 plenary delegates at the First Conference of European Rheo lectures as well as 310 short presentations, which were logists at Graz in 1982 and a decision by the European held in six parallel sessions in seven half-day sittings. members of the International Committee of Rheology The provision of a reading room containing submitted at the 1983 Conference of Engineering Rheology in manuscripts of talks presented at the meeting proved London, the Rheology Group of the Czechoslovak to be popular and seems a worthwhile addition to any Chemical Society (Chairman: Doz. Ing. I. Sestak meeting, at least those holding parallel sessions. There CSc.) was entrusted with the organization of the Sec was also a display by nine companies of a wide variety and Conference of European Rheologists. For an of current rheological instruments. outline of the process leading to the decision to hold The programme for accompanying persons befitted such European meetings, see the Introduction to the the historical significance of the region. The evening Proceedings of the First Conference of European programme included an opening ceremony and recep Rheologists; Rheol Acta 21:355-356 (1982). tion on Monday and an informal banquet on Thurs This Conference was held in the Prague Palace of day as well as a visit to the opera.

Rührtechnik Marko Zlokarnik.2013-03-07

Lexikon Produktionstechnik Verfahrenstechnik Heinz M. Hiersig.2013-03-07 Das Lexikon liefert Ingenieuren umfassendes Praxiswissen aus der gesamten Produktions- und Verfahrenstechnik. Das Spektrum umfaßt Grundlagenwissen und Maschinenbaukenntnisse, wie sie sie z.B. für Fertigungsverfahren benötigen, oder schnell abrufbare Informationen zu Qualitätssicherung, Materialfluß, Logistik und Betriebsorganisation.

Nonionic Surfactants Dieter Balzer,Harald Luders.2000-07-12 This volume provides a comprehensive overview for recognizing and producing the characteristics of successful special surfactant agents. It highlights one of the most versatile and effective surface-active surfactant agents, detailing the synthesis and production, chemical properties and behaviours, and application for alkyl polyglucosides.

Stabilität von ultraleichten Schaumbetonen Albrecht Gilka-Bötzow.2017-01-02 Albrecht Gilka-Bötzow zeigt Wege für eine zuverlässige Anwendung zementgebundener Schäume im Bauwesen auf. Diese hängt insbesondere von der Robustheit des frischen, nicht hydratisierten Materials gegenüber äußeren und inneren Einflüssen ab. Der Autor setzt daher rheologische und kalorimetrische Untersuchungen mit den instationären Strukturmerkmalen von festen mineralisierten Schäumen in Zusammenhang. Daraus entwickelt er ein Modell zur zeitlich aufgelösten Strukturschematisierung. So entsteht eine Basis für eine differenzierte simulative Betrachtung der Zusammenhänge zwischen den Materialcharakteristika des flüssigen und erhärteten Schaums. Auf Grundlage der Entwurfsrechnungen und Modelle können Mischung und Herstellverfahren der Praxis auf ihre Robustheit und Zuverlässigkeit hin geprüft werden.

Viscosimetry of Polymers and Polyelectrolytes Werner-Michael Kulicke,Christian Clasen.2013-06-29 This laboratory handbook offers clear guidelines and tips for the practical everyday application of viscosimetry, as well as supplying a comprehensive companion for the interpretation of viscosimetric data from simple to complex polymer solutions.

Das Rheologie Handbuch Thomas G. Mezger.2016-10-10 Um die Möglichkeiten der Rheologie in der industriellen Praxis zielgerichtet einsetzen zu können, ist ein fundiertes theoretisches Grundwissen, aber auch ein praxisorientiertes Verständnis für Versuche zur Materialcharakterisierung erforderlich. Genau dort setzt das Standardwerk von Thomas Mezger nun bereits in der fünften Auflage an: Die neue, überarbeitete Auflage wurde um zahlreiche Beispiele aus der Praxis ergänzt und bringt sowohl Anfängern als auch fortgeschrittenen Anwendern eine Vielzahl an praktischen Einsatzmöglichkeiten der Rheologie näher. Eine aktualisierte Übersicht relevanter Normen sowie ein neues Kapitel zur Pulver-Rheologie runden das verständliche Lehrbuch ab.

Deformation and Flow of Polymeric Materials Helmut Münstedt,Friedrich Rudolf Schwarzl.2014-11-18 This book describes the properties of single polymer molecules and polymeric materials and the methods how to characterize them. Molar masses, molar mass distributions and branching structure are discussed in detail. These properties are decisive for a

deeper understanding of structure/properties relationships of polymeric materials. This book therefore describes and discusses them in detail. The mechanical behavior as a function of time and temperature is a key subject of the book. The authors present it on the basis of many original results they have obtained in their long research careers. They present the temperature dependence of mechanical properties of various polymeric materials in a wide temperature range: from cryogenic temperatures to the melt. Besides an extensive data collection on the transitions of various different polymeric materials, they also carefully present the physical explanations of the observed phenomena. Glass transition and melting temperatures are discussed, particularly, with their relevance for applications. A comprehensive part of the book deals with properties of polymers in the molten state and their decisive influence on the processing of the materials. The book presents and discusses viscous and elastic properties in detail as a function of molar mass, polydispersity, and branching. This book addresses students of polymer and materials science, as well as other natural sciences. Besides this educational value, it will also serve as a valuable monograph for everyone dealing with polymers and polymeric materials, from research, over development, to applications.

Lubrication at the Frontier: The Role of the Interface and Surface Layers in the Thin Film and Boundary Regime M. Priest, P. Ehret, L. Flamand, G. Dalmaz, T.H.C. Childs, D. Dowson, Y. Berthier, C.M. Taylor, A.A. Lubrecht, J.M. Georges. 1999-07-01
The 25th Leeds-Lyon Symposium on Tribology was held at the Institut des Sciences Appliquées de Lyon, from 8-11th September, 1998. Its central theme was, Lubrication at the frontier: the role of the interface and surface layers in the thin film and boundary regime. This topic was chosen because it represents an important evolution of the research field. The Symposium opened with a keynote address entitled Role of surface-anchored polymer chains in polymer friction which described the processes taking place at the interface between solid and liquid. The keynote address was followed by two invited lectures. Firstly, Fuel efficient engine oils, additive interactions, boundary friction and wear presented the industrial point of view on lubricant formulation and engine testing and its evolution. The second lecture was entitled For establishment of a new EHL theory and stressed the need to extend the current EHL theory. Beginning in 1974, The Leeds-Lyon Symposia have now covered a wide range of topics. The essential aim each year is to select a topic of current interest to tribologists and to contribute to further the advance of knowledge in selected fields.

Dispersionen und Emulsionen Gerhard Lagaly, Oliver Schulz, Ralf Zimehl. 2013-03-07 Die industrielle Herstellung kolloidaler Stoffe und die Optimierung ihrer Eigenschaften für den praktischen Einsatz erfordern ein grundlegendes Verständnis kolloidchemischer Reaktionen. Dieses Buch behandelt aus der Vielzahl kolloidaler Systeme die Dispersionen und Emulsionen, weil sie in der Technik die wichtigsten kolloid-dispersen Systeme darstellen. Es ist gleichzeitig eine Einführung in die experimentelle kolloidchemische Praxis und in die Meßmethoden, wie sie an Hochschulen und in der Industrie benötigt werden.

Thermophysikalische Stoffgrößen Walter Blanke.2013-03-14

Methods In Biotechnology Michael Schweizer.2003-09-02 Provides a grounding in the experimental techniques applicable to the discipline of biotechnology. The introductory section in the text describes procedures for analysis of inorganic and organic materials, strain maintenance and fundamental experiments in gene manipulation. Other chapters deal with fermentation techniques, purification methods for substances of interest, preparation of microbial sensors and the demonstration of oil degradation by bacteria. The final chapter deals with statistical planning of experiments and scale-up methods.

Houben-Weyl Methods of Organic Chemistry Vol. E 20, 4th Edition Supplement .2014-05-14 Houben-Weyl is the acclaimed reference series for preparative methods in organic chemistry, in which all methods are organized according to the class of compound or functional group to be synthesized. The Houben-Weyl volumes contain 146 000 product-specific experimental procedures, 580 000 structures, and 700 000 references. The preparative significance of the methods for all classes of compounds is critically evaluated. The series includes data from as far back as the early 1800s to 2003. // The content of this e-book was originally published in 1987.

Praxiswissen der chemischen Verfahrenstechnik Daniel S. Christen.2009-10-31 Ein umfassendes Werk der chemischen Verfahrenstechnik. Projektierung, Werkstoffe, Reaktionstechnik, Strömungslehre, Wärme- und Stofftransport, mechanische und thermische Einheitsverfahren, Regelungs- und Prozessleittechnik werden ausgehend von den theoretischen Grundlagen bis hin zu komplexen Beispielen aus der Praxis einheitlich dargestellt.

Trends in Colloid and Interface Science V M. Corti,F. Mallamace.2007-12-11

Synthetic Biodegradable Polymers Bernhard Rieger,Andreas Künkel,Geoffrey W. Coates,Robert Reichardt,Eckhard Dinjus,Thomas A. Zevaco.2012-01-21 Salen Metal Complexes as Catalysts for the Synthesis of Polycarbonates from Cyclic Ethers and Carbon Dioxide, by Donald J. Darensbourg.- Material Properties of Poly(Propylene Carbonates), by Gerrit. A. Luinstra and Endres Borchardt.- Poly(3-Hydroxybutyrate) from Carbon Monoxide, by Robert Reichardt and Bernhard Rieger.- Ecoflex® and Ecovio®: Biodegradable, Performance-Enabling Plastics, by K. O. Siegenthaler, A. Künkel, G. Skupin and M. Yamamoto.- Biodegradability of Poly(Vinyl Acetate) and Related Polymers, by Manfred Amann and Oliver Minge.- Recent Developments in Ring-Opening Polymerization of Lactones, by P. Lecomte and C. Jérôme.- Recent Developments in Metal-Catalyzed Ring-Opening Polymerization of Lactides and Glycolides: Preparation of Polylactides, Polyglycolide, and Poly(lactide-co-glycolide), by Saikat Dutta, Wen-Chou Hung, Bor-Hunn Huang and Chu-Chieh Lin.- Bionolle (Polybutylenesuccinate), by Yasushi Ichikawa, Tatsuya Mizukoshi.- Polyurethanes from Renewable Resources, by David A. Babb.-

Thermoplastische Elastomere Günter Scholz,Manuela Gehringer.2021-08-02 Das Buch bietet einen qualifizierten und

schnellen Einblick in die Welt der TPE einschließlich des Unterschieds zu Gummiwerkstoffen. Es beschreibt deren Einordnung, wie sie auf dem Markt präsentiert werden, Charakterisierung, Herstellung, Verarbeitung und Verhalten. Neben der Möglichkeit des Selbststudiums ist es ein Begleiter zu Seminaren und Studien über Elastomere

High Temperature Siloxane Elastomers Petar R. Dvornic, Robert W. Lenz. 1990

Emulgiertechnik Karsten Köhler, Prof. Dr.-Ing. Heike P. Schuchmann. 2012-01-01 Emulgieren ist ein Fertigungsprozess, der aus der Lebensmittel-, Pharma- und Kosmetikindustrie nicht wegzudenken ist. Mit Hilfe moderner Emulgiertechniken lassen sich eine Vielzahl von Produkten herstellen. Die Neuauflage des Werkes Emulgiertechnik liefert hierfür das notwendige Wissen. Emulgierverfahren, aber auch die technologischen Grundlagen, werden anschaulich und praxisnah erläutert.

Makromolekulare Chemie M. D. Lechner, Klaus Gehrke, Eckhard H. Nordmeier. 2013-07-29 Die 4. Auflage der Makromolekularen Chemie wurde vollständig überarbeitet und aktualisiert, wobei das bewährte Aufbauprinzip Struktur-Synthese-Eigenschaften beibehalten wurde. Neu hinzugekommen ist ein Kapitel über die Korrelation von makroskopischen Eigenschaften und molekularer Struktur unter Einbeziehung der optischen und magnetischen Eigenschaften von Polymeren. Die Forderung nach neuen Eigenschaften polymerer Werkstoffe wird zunehmend durch den Verbund vorhandener Polymerer erfüllt. Die Struktur und Morphologie mehrphasiger Polymerlegierungen wird in Zusammenhang mit den makroskopischen Eigenschaften (mechanische, thermische, optische und magnetische Eigenschaften) gebracht. Die beiliegende CD-ROM enthält neben dem vollständigen Buchtext mit Volltextsuche weiterführende Texte, Anhänge und Hinweise und verbesserte Recherche-Möglichkeiten durch Verknüpfung von Suchbegriffen. Der Buchtext und die Anhänge liegen auf der CD-ROM als pdf-Dateien vor, wobei die Anhänge ausdrückbar sind.

Fließverhalten von Stoffen und Stoffgemischen Werner-Michael Kulicke. 1986-02-13

Rheology Essentials of Cosmetic and Food Emulsions Rüdiger Brummer. 2006-05-27 Cosmetic emulsions exist today in many forms for a wide variety of applications, including face and hand creams for normal, dry or oily skin, body milks and lotions, as well as sun-block products. Keeping track of them and their properties is not always easy despite informative product names or partial names (e.g. hand or face cream) that clearly indicate their use and properties. This practical manual provides a detailed overview that describes the key properties and explains how to measure them using modern techniques. Written by an expert in flows and flow properties, it focuses on the application of rheological (flow) measurements to cosmetic and food emulsions and the correlation of these results with findings from other tests. Beginning with a brief history of rheology and some fundamental principles, the manual describes in detail the use of modern viscometers and rheometers, including concise explanations of the different available instruments. But the focus remains on practical everyday lab procedures: how to characterize cosmetic and food emulsions with different rheological tests such as temperature, time,

stress and strain, both static and dynamic. Also the critical topic of how the results correlate with other important product characteristics, for instance, skin sensation, pumping performance, stability etc. is carefully explored. Many pictures, illustrations, graphs and tables help readers new to the measurement of cosmetic emulsions in their daily work as well as to the more experienced who seek additional special tips and tricks.

Fluorinated Polymers Bruno Ameduri, Hideo Sawada. 2016-10-25 Fluoropolymers display a wide range of remarkable properties and are used in a number of applications including high performance elastomers, thermoplastics, coatings for optical fibers, and hydrophobic and lipophobic surfaces. Fluorinated Polymers: Synthesis, Properties, Processing and Simulation covers the fundamentals of different fluorinated polymers. Topics include the kinetics of homopolymerisation and copolymerization, process chemistry, and controlled radical co-polymerisation techniques. Written by internationally recognized academic and industrial contributors, the book will be of interest to those in industry and academia working in the fields of materials science, polymer chemistry and energy applications of polymers. Together with Fluorinated Polymers: Applications, these books provide a complete overview of different fluorinated polymer materials and their uses.

Formulierungstechnik Hans Mollet, Arnold Grubenmann. 2009-06-01 Viele chemische Stoffe und Verbindungen werden nicht in reiner Form angewandt. Um die beste Entfaltung des Wirkstoffes zu ermöglichen oder die optimalen Handels- oder Verkaufsform zu erreichen, schließen sich an die Synthese und Reinigung die Aufbereitung und Formulierung an. Die Palette der Handelsformen reicht von Pulvern, Agglomeraten, Granulaten, Suspensionen, Slurries, Emulsionen, Mikroemulsionen, Mikrokapseln, Instantpräparaten, Liposomen bis hin zu Tabletten und Dragees. Die Formulierung kann je nach Präparat in einer einfachen Mischoperation bestehen oder kompliziertere verfahrenstechnische Schritte, wie Zerkleinern, Dispergieren, Emulgieren, Agglomerieren, Solubilisieren, Trocknen usw. einschließen. Sie spannt den Bogen von der Kolloid- und Grenzflächenchemie zur Verfahrenstechnik. In diesem Buch werden die für den Formulierungsschemiker in der Industrie wesentlichen physikalisch-chemischen Grundlagen und Anwendungen in der chemischen Industrie, z.B. für Pharmazeutika, Agrochemikalien, Pigmente, Farbstoffe, Lebensmittel, Additive, Waschmittel und Kosmetika sowie die geeigneten Hilfsmittel für die Struktur-Wirkungsbeziehung übersichtlich und praxisnah beschrieben.

Fliessverhalten von Stoffen und Stoffgemischen Werner-Michael Kulicke, H. Bauer. 1986

Tonminerale und Tone Karl Jasmund, Gerhard Lagaly. 2013-03-07 Im ersten Teil des Buches werden die Tonminerale genau beschrieben und ihre Reaktionen (Ionenaustausch, Quellung, kolloidale Dispersionen, Wechselwirkung mit allen Arten organischer Verbindungen einschließlich von Polymeren) dargestellt. Der Hauptteil enthält das Verhalten der Tonminerale in Böden und die vielfältigen Einsatzmöglichkeiten in Geotechnik und allen möglichen Sparten der Industrie. In diesen Kapiteln finden sich auch Angaben zur Bindung von toxischen Stoffen und Pestiziden und die Verwendung als Abdichtungsmaterialien. Das Buch spricht den Wissenschaftler, Techniker und Ingenieur an, der in der Praxis mit Tonen

arbeitet und deren Verwendungsmöglichkeiten prüft sowie den Studenten einschlägiger Fachrichtungen. Die praktische Verwendung der Tone und mögliche Einsatzgebiete sind schwerpunktmäßig behandelt.

Makromoleküle Hans-Georg Elias.2009-08-19 Längst ein Klassiker: Kein anderes deutschsprachiges Werk über Makromoleküle erscheint bereits in der sechsten Auflage! Mit Band 2 liegt nun eine zeitgemäße Behandlung der physikalischen Eigenschaften von Makromolekülen vor. Er schildert in seinem ersten Teil die Struktur isolierter Moleküle und die zur Strukturaufklärung verwendeten Verfahren, bevor dann Mikro- und Makrokonformationen von Makromolekülen beschrieben werden. Der zweite Teil befasst sich mit der physikalischen Struktur von Molekülverbänden in amorphen Zuständen, Schmelzen und konzentrierten Lösungen, im kristallinen Zustand, in Mesophasen sowie in und an Grenzflächen, bevor im dritten Teil Makromoleküle in Lösungen diskutiert werden. Teil vier ist dann den Schmelzen und ihren Eigenschaften gewidmet, Teil fünf behandelt die mechanischen Eigenschaften polymerer Festkörper wie Elastizität, Viskoelastizität und Bruchverhalten. Auch in diesem Band stehen eine nicht zu elementare Darstellung des Stoffes und die integrierende Behandlung von Chemie, Physik, Biologie und Technologie im Vordergrund, die von einem breiten Leserkreis geschätzt werden.

Makromolekulare Chemie Prof. Dr. M. D. Lechner, Prof. Dr. K. Gehrke, Prof. Dr. E. H. Nordmeier.2013-11-27 Die 4. Auflage der Makromolekularen Chemie wurde vollständig überarbeitet und aktualisiert, wobei das bewährte Aufbauprinzip Struktur-Synthese-Eigenschaften beibehalten wurde. Die Phänomene, Theorien und experimentellen Methoden der makromolekularen Chemie werden von Grund auf dargestellt. In den Kapiteln Struktur der Makromoleküle und Synthese von Makromolekülen, Polyreaktionen werden Grundbegriffe wie Konstitution, Konfiguration und Konformation erläutert, Syntheseprozesse beschrieben und die Grundlagen der Polyreaktionstechnik vermittelt. Die Eigenschaften der Makromoleküle werden ausführlich unter folgenden Aspekten behandelt: Das Makromolekül in Lösung geht auf die Verteilungsfunktionen der Makromolekülkette, die Thermodynamik von Polymerlösungen und alle zur Charakterisierung wichtigen Messmethoden und Theorien ein. Das Makromolekül als Festkörper und als Schmelze geht auf grundlegende Strukturen, thermische, mechanische, rheologische, viskoelastische, optische und elektrische Eigenschaften sowie Umwandlungen von Polymeren ein und enthält eine Einführung in die technische Verarbeitung von Makromolekülen. Die weiteren Kapitel des Lehrbuchs behandeln die Qualitative Analyse von Makromolekülen, Reaktionen an Makromolekülen einschließlich der Alterung und dem Alterungsschutz von Polymeren und die Verwertung von Kunststoffen einschließlich der werkstofflichen, rohstofflichen und energetischen Verwertung. Neu hinzugekommen ist ein Kapitel über die Korrelation von makroskopischen Eigenschaften und molekularer Struktur unter Einbeziehung der optischen und magnetischen Eigenschaften von Polymeren. Die Forderung nach neuen Eigenschaften polymerer Werkstoffe wird zunehmend durch den Verbund vorhandener Polymerer erfüllt. Die Struktur und Morphologie mehrphasiger Polymerlegierungen wird in

Zusammenhang mit den makroskopischen Eigenschaften (mechanische, thermische, optische und magnetische Eigenschaften) gebracht. Die beiliegende CD-ROM enthält neben dem vollständigen Buchtext weiterführende Texte, Anhänge und Hinweise und verbesserte Recherche-Möglichkeiten durch Verknüpfung von Suchbegriffen. Der Buchtext und die Anhänge liegen auf der CD-ROM als pdf-Dateien vor, wobei die Anhänge ausdrückbar sind. Mit Hilfe einer Volltextsuche lassen sich innerhalb des gesamten Buchs sowie der Anhänge Begriffe recherchieren. Dieses Standardlehrbuch der Physik und Chemie der Makromoleküle richtet sich sowohl an Studierende als auch im Beruf stehende Wissenschaftler und Techniker.

Food Physics Ludger Figura, Arthur A. Teixeira. 2007-08-24 This is the first textbook in this field of increasing importance for the food and cosmetics industries. It is indispensable for future students of food technology and food chemistry as well as for engineers, technologists and technicians in the food industries. It describes the principles of food physics starting with the very basics - and focuses on the needs of practitioners without omitting important basic principles. It will be indispensable for future students of food technology and food chemistry as well as for engineers, technologists and technicians in the food industries. Food Physics deals with the physical properties of food, food ingredients and their measurement.

Herstellung von polymeren Stents als Drug Delivery Systeme durch Tauchen aus der Polymerlösung Axel Hentrich. 2005

Eventually, you will definitely discover a supplementary experience and achievement by spending more cash. nevertheless when? pull off you recognize that you require to acquire those every needs bearing in mind having significantly cash? Why dont you try to acquire something basic in the beginning? Thats something that will lead you to understand even more with reference to the globe, experience, some places, with history, amusement, and a lot more?

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