



Polymer Chemistry Technology

William R Ashcroft



Polymer Chemistry Technology:

Key Technologies in Polymer Chemistry Nikolay D. Morozkin, Vadim P. Zakharov, Gennady E. Zaikov, 2015-01-26 With contributions from experts from both the industry and academia this book presents the latest developments in polymer products and chemical processes It incorporates appropriate case studies explanatory notes and schematics for more clarity and better understanding This new book Features a collection of articles that highlight some important Basics of Polymer Chemistry Muralisrinivasan Natamai Subramanian, 2022-09-01 Basics of Polymer Chemistry is of great interest to the chemistry audience The basic properties of polymers including diverse fundamental and applied aspects are presented This book constitutes a basis for understanding polymerization and it presents a comprehensive overview of the scientific research of polymers The chapters presented can be used as a reference for those interested in understanding the sustainable development in polymers Basics of Polymer Chemistry provides a balanced coverage of the key developments in this field and highlights recent and emerging technical achievements The topics covered present a comprehensive overview of the subject area and are therefore of interest to professors and students The recent developments in polymerization using catalysts homo and copolymerization are presented and it contains current efforts in designing new polymer architectures Improved property performance attributes of the polymers by controlling their molecular structural characteristics such as molecular weight distribution comonomer type content distribution and branching level are also discussed *Synthetic Polymers* D. Feldman, A. Barbalata, 1996-05-31 Synthetic Polymers is a comprehensive introduction to the technologies involved in the synthesis of the main classes of engineering high polymers used in such materials as plastics fibers rubbers foams adhesives and coatings Besides the basic processes this volume includes information on physical chemical and mechanical characteristics key factors with respect to obtaining the right end products It also focuses on the main application of synthetic polymers in different engineering areas and gives data on production and consumption Over 60 technological flowcharts are presented in a clear and concise manner to provide the reader with essential information on relevant operations **Polymer Science and Technology** Robert O. Ebewele, 2000-03-23 By consolidating into one volume the fundamentals currently covered piecemeal across several reference this book simplifies the learning of polymer science Its primary focus is the ultimate property of the finished polymer product Part I explains polymer fundamentals Part II discusses how polymers are prepared from monomers and the transformation of polymers into useful everyday articles Part III examines the properties and applications of polymers Polymer Science and Technology presents these aspects of the science in a readily understandable way It emphasizes basic qualitative comprehension of concepts rather than their rote memorization or detailed mathematical analysis *Microwave-Enhanced Polymer Chemistry and Technology* Dariusz Bogdal, Aleksander Prociak, 2008-03-21 While polymer technology forms one of the largest areas of application of microwave technology and the methods and procedures used therein are among the most developed there is still a relative lack of

published information on the subject Microwave Enhanced Polymer Chemistry and Technology describes novel approaches to polymer processing using microwave technologies Coverage includes background and scientific data analysis of processes and product properties in comparison with existing technology applications that are being used in various approaches and the status of current research Features of microwave irradiation i e solvent free reactions low waste energy efficiency high yield short reaction time and possible use of alternative solvents can play an important role in the development of green chemistry methods

Industrial Polymer Applications William R Ashcroft,2019-03-07 Industrial Polymer Applications provides a comprehensive overview of the diverse properties and applications of thermoset and thermoplastic polymer technologies used routinely in the modification protection repair restoration and bonding of the main classes of industrial engineering materials such as concrete masonry wood metal rubber plastic glass and advanced ceramics The Author with extensive industrial experience in the design and development of polymeric adhesives composites concrete repair and industrial coatings materials provides a balanced perspective of the essential chemistries and technologies for each of the relevant polymeric solutions This book includes explanations as to why polymers are needed and the specific problems and key industrial application challenges that can be overcome for each class of engineering material The use of supplementary information boxes suggestions for further reading and supportive appendices including worked examples delivers an easy to understand guide of relevant industrial applications of polymers Written in an accessible way the book provides a supplementary text for undergraduates postgraduates and industrialists who have studied or are involved in chemistry polymer chemistry industrial chemistry materials science chemical engineering mechanical engineering civil engineering or corrosion engineering science and technology

Science and Technology of Polymers and Advanced Materials Omari V. Mukbaniani,Tamara N. Tatrishvili,Marc J. M. Abadie,2019-09-02 Increasing interest in lightweight and high performance materials is leading to significant research activity in the area of polymers and composites One recent focus is to develop multifunctional materials that have more than one property tailored as to the specified design requirements in addition to achieving low density The possibility of simultaneously tailoring several desired properties is attractive but very challenging and it requires significant advancement in the science and technology of high performance functional polymers and composites This volume presents a selection of new approaches in the field of composites and nanomaterials polymer synthesis and applications and materials and their properties Some composites nanocomposites and interfaces are explored as well some with medical applications The authors also look at simulations and modeling synthesis involving photochemistry self assembled hydrogels and sol gel processing

Polymer Science and Technology Joel R. Fried,1995 This book addresses the specific needs of chemical engineering students It also covers basic polymer engineering principles in addition to major polymer chemistry and material topics

Chemistry and Technology of Thermosetting Polymers in Construction Applications M.H. Irfan,2012-12-06 Polymeric products are used widely in the construction industry because they offer a

range of desirable performance properties not available from traditional materials Development of these products continues in a number of major research and development programmes within the construction materials sector aimed at improving the performance durability and applicational properties of these materials It seems certain that their use will increase as their overall performance is developed and as the industry becomes more familiar with the techniques required to apply these materials and the benefits they offer The purpose of this book is to familiarise the reader with the range of thermosetting polymeric materials available for construction applications and to provide sound information on the properties and applications of these important materials Professional engineers involved in the specification application and testing of these materials will find this book a compact authoritative and comprehensive source of information on these materials Chemists and technologists involved in developing new or improved formulations will find in this book much to inform their work particularly in the important area of applicational properties

Radiation Technology for Polymers Jiri George Drobny, 2010-05-21 The first edition of *Radiation Technology for Polymers* set the standard as a valuable time saving resource offering systematic fundamental information about industrial radiation technologies Raising the bar even further *Radiation Technology for Polymers* Second Edition explores emerging applications of ultraviolet UV and electron beam EB rad

Polymer Pioneers Peter J. Morris, 2005-06 Accompanied by an introductory overview of the history of polymer science this book contains biographical sketches of 12 pioneers from Marcellin Berthollet and John Wesley Hyatt to Karl Ziegler and Giulio Natta It also includes time charts before each chapter that summarise significant events

Handbook of Polymer Coatings for Electronics James J. Licari, Laura A. Hughes, 1990-12-31 This completely revised edition remains the only comprehensive treatise on polymer coatings for electronics Since the original edition the applications of coatings for the environmental protection of electronic systems have greatly increased largely driven by the competitive need to reduce costs weight and volume The demands for high speed circuits for the rapid processing of signals and data high density circuits for the storage and retrieval of megabits of memory and the improved reliability required of electronics for guiding and controlling weapons and space vehicles have triggered the development of many new and improved coating polymers and formulations Both the theoretical aspects of coatings molecular structure of polymer types and their correlation with electrical and physical properties and applied aspects functions deposition processes applications testing are covered in the book Over 100 proprietary coating formulations were reviewed their properties collated and tables of comparative properties prepared This book is useful as both a primer and as a handbook for collecting properties data

Polymers in Information Storage Technology K.L. Mittal, 2011-09-30 This volume documents the proceedings of the Symposium on Polymers in Information Storage Technology held as a part of the American Chemical Society meeting in Los Angeles September 25 30 1988 It should be recorded here that this symposium was cosponsored by the Division of Polymeric Materials Science and Engineering and the Division of Polymer Chemistry Polymers are used for a variety of purposes in both optical and magnetic

information storage technologies For example polymers find applications as substrate for storing information directly as protective coating as lubricant and as binder in magnetic media In the last few years there has been a high tempo of research activity dealing with the many ramifications of polymers in the exciting arena of information storage Concomitantly we decided to organize this symposium and I believe this was the premier event on this topic This symposium was conceived and organized with the following objectives in mind 1 to bring together those actively involved polymer chemists polymer physicists photochemists surface and colloid chemists tribo10gists and so on in the various facets of this topic 2 to provide a forum for discussion of latest R 3 to provide an opportunity for cross pollination of ideas and 4 to identify and highlight areas within the broad purview of this topic which needed intensified or accelerated R D efforts

Polymer Science and Technology Robert O. Ebewele, 2000-03-23 Your search for the perfect polymers textbook ends here with Polymer Science and Technology By incorporating an innovative approach and consolidating in one volume the fundamentals currently covered piecemeal in several books this efficient text simplifies the learning of polymer science The book is divided into three main sections polymer fundamentals polymer formation and conversion into useful articles and polymer properties and applications Polymer Science and Technology emphasizes the basic qualitative understanding of the concepts rather than rote memorization or detailed mathematical analysis Since the book focuses on the ultimate property of the finished product it minimizes laborious descriptions of experimental procedures used for the characterization of polymers Instead the author highlights how the various stages involved in the production of the finished product influence its properties Well organized clear cut and user friendly Polymer Science and Technology is an outstanding textbook for teaching junior and senior level undergraduates and first year graduate students in an introductory course covering the challenging subject of polymers

Organic Polymer Chemistry K.J. Saunders, 2012-12-06 This book deals with the organic chemistry of polymers which find technological use as adhesives fibres paints plastics and rubbers For the most part only polymers which are of commercial significance are considered and the primary aim of the book is to relate theoretical aspects to industrial practice The book is mainly intended for use by students in technical institutions and universities who are specializing in polymer science and by graduates who require an introduction to this field There are available several books dealing with the physical chemistry of polymers but the organic chemistry of polymers has not received so much attention In recognition of this situation and because the two aspects of polymer chemistry are often taught separately this book deals specifically with organic chemistry and topics of physical chemistry have been omitted Also in this way the book has been kept to a reasonable size This is not to say that integration of the two areas of polymer science is undesirable on the contrary it is important that the inter relationship should be appreciated I was gratified by the favourable comments prompted by the first edition of the book and I have therefore retained the same organization in this second edition Nevertheless the book has been extensively revised to reflect the developments which have taken place

Fundamentals of Polymer Chemistry : Principles,

Methods, Properties and Applications Abhijit Bandyopadhyay, Srijoni Sengupta, Sayan Basak, 2024-06-20 Polymer Chemistry is a subdiscipline of chemistry that focuses on the chemical synthesis structure and chemical and physical properties of polymers and macromolecules The principles and methods used in polymer chemistry are also applicable through a wide range of other subdisciplines like Organic Chemistry Analytical Chemistry and Physical Chemistry Polymer Chemistry can also be included in broader fields of Polymer science or even nanotechnology both of which can be described as encompassing polymer physics and polymer engineering This book provides a comprehensive introduction and circumscribes the recent development in the realm of polymer science in a multi mode model The book emphasizes both theoretical perspectives along with examples to make readers understand the subject in depth alongside also presents subjective objective cum numerical problems enabling students to prepare for various competitive examinations

Imidic Polymers and Green Polymer Chemistry Andreea Irina Barzic, Neha Kanwar Rawat, A. K. Haghi, 2021-03-25 This book reviews the latest research development and future potential of polyimides and green polymer chemistry It combines the major interdisciplinary research in this area Polymers with imidic structure known as polyimides are widely investigated owing to their practical implications in numerous industrial sectors The book explains why polyimides offer versatility unparalleled in comparison to most other classes of macromolecules In addition developments in green polymer chemistry in this area have been stimulated by health and environmental concerns interest in sustainability desire to decrease the dependence on petroleum and opportunities to design and produce green products and processes Major advances include new uses of green processing methodologies and green polymeric products Imidic Polymers and Green Polymer Chemistry New Technology and Developments in Process and Product is targeted to scientists engineers and students who are involved or interested in green polymer chemistry and imidic polymers This book will serve as a valuable reference for those with an interest in synthesis of polyimides and the chemistry and physical chemistry of polyimide compounds

Polymer Science and Technology Richard. A. Pethrick, 2009 Annotation Polymers and composites are widely used for a range of applications in engineering and technology Selecting the correct material which is fit for purpose is a critical decision faced by engineers and scientists who do not necessarily have an in depth knowledge of the chemistry or physics of polymers This text book provides a practical insight into the factors which influence the performance of a polymer or composite allowing informed selections to be made It is the result of thirty years of teaching polymer science and technology to engineers and scientists and provides a solid foundation from which more advanced study may be developed The book complements introductory courses on polymers and composites but also contains specialist material on the chemistry and physics of polymers appropriate for scientists seeking a general knowledge of polymer science The production of articles from thermoplastics and thermoset resins is considered with respect to the vital issue of fabrication method and a broad appreciation of the use and application of polymers is provided by considering polymers as adhesives in medical applications and in the fabrication of

semiconductor circuits Also included are the important topics of adhesion fatigue viscoelasticity basic composite design theoretical description of polymers polymer synthesis and characterization Polymers - Opportunities and Risks I Peter Eyerer, 2010-07-31 Since their first industrial use polymers have gained a tremendous success The two volumes of Polymers Opportunities and Risks elaborate on both their potentials and on the impact on the environment arising from their production and applications Volume 11 Polymers Opportunities and Risks I General and Environmental Aspects is dedicated to the basics of the engineering of polymers always with a view to possible environmental implications Topics include materials processing designing surfaces the utilization phase recycling and depositing Volume 12 Polymers Opportunities and Risks II Sustainability Product Design and Processing highlights raw materials and renewable polymers sustainability additives for manufacture and processing melt modification biodegradation adhesive technologies and solar applications All contributions were written by leading experts with substantial practical experience in their fields They are an invaluable source of information not only for scientists but also for environmental managers and decision makers **Polymer Science** Vasant R. Gowariker, N. V. Viswanathan, Jayadev Sreedhar, 1986

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