Polymer Chemistry

Second Edition

Paul C. Hiemenz
Timothy P. Lodge

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mathematical tools as needed and fully derived problems for advanced calculations This new edition integrates new theories and experiments made possible by advances in instrumentation It adds new chapters on controlled polymerization and chain conformations while expanding and updating material on topics such as catalysis and synthesis viscoelasticity rubber elasticity glass transition crystallization solution properties thermodynamics and light scattering Polymer Chemistry Second Edition offers a logical presentation of topics that can be scaled to meet the needs of introductory as well as more advanced courses in chemistry materials science and chemical engineering **Fundamentals of Polymer Science** Michael M. Coleman,Paul C. Painter,2019-01-25 Now in its second edition this widely used text provides a unique presentation of today s polymer science It is both comprehensive and readable The authors are leading educators in this field with extensive background in industrial and academic polymer research The text starts with a description of the types of microstructures found in polymer *Introduction to Polymer Chemistry, Second Edition* Charles E. Carraher Jr.,2011-07-08 As the first polymer book to receive the CHOICE Outstanding Academic Title distinction 2007 Introduction to Polymer Chemistry provided undergraduate students with a much needed well rounded presentation of the principles and applications of natural synthetic inorganic and organic polymers With an emphasis on the environment and green chemistry and materials this second edition continues that tradition offering detailed coverage of natural and synthetic giant molecules inorganic and organic polymers elastomers adhesives coatings fibers plastics blends caulks composites and ceramics Using simple fundamentals the author shows how the basic principles of one polymer group can be applied to all of the other groups He covers synthesis and polymerization reactions reactivities techniques for characterization and analysis energy absorption and thermal conductivity physical and optical properties and practical applications This edition also addresses environmental concerns and green polymeric materials including biodegradable polymers and microorganisms for synthesizing materials Brief case studies are woven within the text as historical accounts to illustrate various developments and the societal and scientific contexts in which these changes occurred Introduction to Polymer Chemistry Second Edition remains the premier text for understanding the behavior of polymers while offering new material on environmental science Building on undergraduate work in foundational courses the text fulfills the American Chemical Society Committee on Professional Training ACS CPT in depth course requirement It also provides a test bank with upon qualifying course adoption

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and balanced introduction to the basic concepts of macromolecular chemistry and to the synthesis and physical chemistry of polymers it is the ideal text for graduate students and advanced Masters students starting out in polymer science Building on the basic principles of organic chemistry and thermodynamics it provides an easily understandable and highly accessible introduction to the topic Step by step readers will obtain a detailed and well founded understanding of this vibrant and increasingly important subject area at the intersection between chemistry physics engineering and the life sciences Following an approach different from many other textbooks in the field the authors with their varying backgrounds both from academia and industry offer a new perspective Starting with a clear and didactic introduction the book discusses basic terms and sizes and shapes of polymers and macromolecules There then follow chapters dedicated to polymers in solutions molar mass determination and polymers in the solid state incl partially crystalline or amorphous polymers as well as their application as engineering materials Based on this information the authors explain the most important polymerization methods and techniques Often neglected in other textbooks there are chapters on technical polymers functional polymers elastomers and liquid crystalline polymers as well as polymers and the environment An overview of current trends serves to generate further interest in present and future developments in the field This book is the English translation of the successful German textbook Polymere which was awarded the Chemical Industry in Germany s 2015 literature Prize Literaturpreis des Fonds der Chemischen Industrie for its innovative novel approach and its good accessibility and readability while at the same time providing comprehensive coverage of the field of polymer science Polymer Chemistry Raymond Benedict Seymour,Charles E. Carraher (Jr.),1992 *Introduction to Polymer Science and Chemistry* Manas Chanda,2013-01-11 Industry and academia remain fascinated with the diverse properties and applications of polymers However most introductory books on this enormous and important field do not stress practical problem solving or include recent advances which are critical for the modern polymer scientist to be Updating the popular first edition of the polymer book for the new millennium this volume seamlessly integrates exploration of the fundamentals of polymer science and polymer chemistry It is peppered with helpful questions and answers throughout to enhance understanding of presented theories and concepts

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