

PRINCIPLES OF POLYMERIZATION

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G E O R G E O D I A N

Principles Of Polymerization

George G. Odian



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in a straightforward and lucid manner Separate chapters on natural inorganic and specialty polymers would attract readers from interdisciplinary courses BOOK JACKET *Principles of Polymer Design and Synthesis* Wei-Fang Su,2013-10-09 How can a scientist or engineer synthesize and utilize polymers to solve our daily problems This introductory text aimed at the advanced undergraduate or graduate student provides future scientists and engineers with the fundamental knowledge of polymer design and synthesis to achieve specific properties required in everyday applications In the first five chapters this book discusses the properties and characterization of polymers since designing a polymer initially requires us to understand the effects of chemical structure on physical and chemical characteristics Six further chapters discuss the principles of polymerization reactions including step radical chain ionic chain chain copolymerization coordination and ring opening Finally material is also included on how commonly known polymers are synthesized in a laboratory and a factory This book is suitable for a one semester course in polymer chemistry and does not demand prior knowledge of polymer science

Fundamental Principles of Polymerization Gaetano Frank D'Alelio,2013-04 **Principles of Polymerization Engineering** Joseph A. Biesenberger,Donald H. Sebastian,1983-07-14 Covers the analysis of model systems and simple experimental works on both batch and continuous polymerization systems Organizes and classifies polymerization reactions and reactors according to their various characteristics emphasizing the interaction between physical factors operating in chemical reactors and properties of the polymer formed Model systems are used to analyze results Principles of Polymerization George G. Odian,1981 Extensively updated Principles of Polymerization Fourth Edition provides an excellent textbook for today s students of polymer chemistry chemical engineering and materials science as well as a current reference for the researcher or other practitioner working in these areas **Principles of Polymerization** George G. Odian,1970

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concepts pertaining to polymer structure and behavior while also providing an up to date discussion of the latest developments in polymerization systems Example problems in the text help students through step by step solutions and nearly 300 end of chapter problems many new to this edition reinforce the concepts presented *Principles of Polymerization* Ferdinand Rodriguez,1970 *Principles of Polymer Systems* Ferdinand Rodriguez,1989 Organized to present the subject clearly to a person with no prior knowledge of polymer systems Serves also as a broadening tool for scientists and engineers with partial experience in the field New edition has added more than 300 general references and over 35 original problems Annotation copyrighted by Book News Inc Portland OR **Principles of Polymer Systems** Ferdinand Rodriguez,1970 [Fundamental Principles of Polymeric Materials](#) Christopher S. Brazel,Stephen L. Rosen,2012-05-08 New edition brings classic text up to date with the latest science techniques and applications With its balanced presentation of polymer chemistry physics and engineering applications the Third Edition of this classic text continues to instill readers with a solid understanding of the core concepts underlying polymeric materials Both students and instructors have praised the text for its clear explanations and logical organization It begins with molecular level considerations and then progressively builds the reader s knowledge with discussions of bulk properties mechanical behavior and processing methods Following a brief introduction *Fundamental Principles of Polymeric Materials* is divided into four parts Part 1 Polymer Fundamentals Part 2 Polymer Synthesis Part 3 Polymer Properties Part 4 Polymer Processing and Performance Thoroughly Updated and Revised Readers familiar with the previous edition of this text will find that the organization and style have been updated with new material to help them grasp key concepts and discover the latest science techniques and applications For example there are new introductory sections on organic functional groups focusing on the structures found in condensation polymerizations The text also features new techniques for polymer analysis processing and microencapsulation as well as emerging techniques such as atom transfer radical polymerization At the end of each chapter are problems including many that are new to this edition to test the reader s grasp of core concepts as they advance through the text There are also references leading to the primary literature for further investigation of individual topics A classic in its field this text enables students in chemistry chemical engineering materials science and mechanical engineering to fully grasp and apply the fundamentals of polymeric materials preparing them for more advanced coursework *Physical Polymer Science 4th Edition with Principles Polymerization 4th Edition Set* Leslie H. Sperling,George Odian,2005-12-23 Odian s *Principles of Polymerization* The new edition of this classic textbook describes the physical and organic chemistry of the reactions that produce polymers Three primary features distinguish this book from the competition 1 each topic is prefaced with a thorough discussion at the elementary level assuming at most only a limited background in physical and organic chemistry 2 the presentation and writing are geared for the student 3 each topic is subsequently considered at an advanced level allowing both the novice and more accomplished student to achieve an advanced understanding of polymer

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Principles of Polymer Processing Zehev Tadmor, Costas G. Gogos, 1979 The first comprehensive and functionally useful engineering analysis of underlying principles and mechanisms Takes a novel approach suggesting that any of the prevailing processing methods can be broken down into a shaping step and into a set of clearly defined elementary steps that prepare the polymeric raw material for shaping The shaping steps include calendaring and coating die forming mold coating molding and casting and secondary shaping whereas the elementary steps are handling of particulate solids melting pressurization and pumping mixing and stripping and devolatilization

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Principles of Polymer Composites Al. Al Berlin, 1986

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