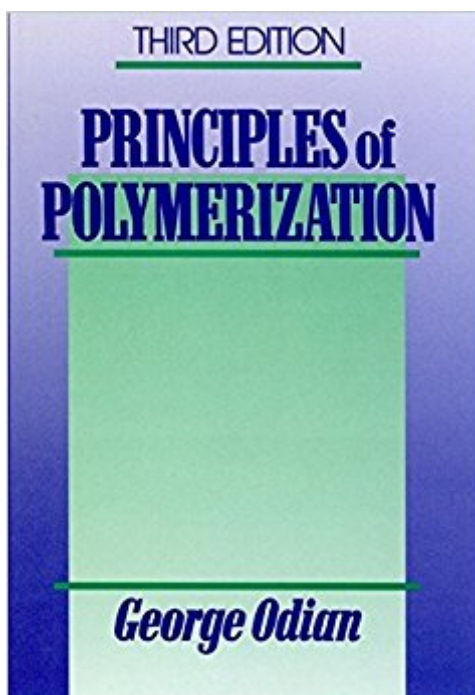


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Principles Of Polymerization, 3rd Edition



Synopsis

Describes the physical and organic chemistry of the reactions by which polymer molecules are synthesized. Begins by introducing the characteristics which distinguish polymers from their much smaller sized homologs. Proceeds to a detailed study of three types of polymerization reactions: step, chain and ring-opening. Reactions are characterized as to their kinetic and thermodynamic features, their scope and utility for synthesis of different types of polymer structures, and the process conditions which are used to carry them out. Assumes a background in organic and physical chemistry and can serve as either a self-teaching guide to polymers for the beginner or as a handy reference for the experienced polymer chemist. Each chapter includes a selection of problems to aid learning and a solutions manual is available on request.

Book Information

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Customer Reviews

"â |this book would be usefulâ |as a reference toolâ |" (IEEE Electrical Insulation Magazine, March/April 2006)"Chemists, chemical engineers, and material scientists who want to know more about the chemistry and structural control of polymers would find extensive information in this bookâ |" (MRS Bulletin, February 2006)â œâ |the most comprehensive treatment of this topic that I have encountered â |an essential component of the book collection of any research group involved in polymer synthesis.â • (Advanced Materials, 2005; Vol., 17; 16)â œâ |an excellent textbook for todayâ ™s students of polymer chemistry, chemical engineering and materials science, as well as a current reference for the researcherâ |.â • (Apollit, 2005)"This is the fourth edition of what has not

only become a classic textbook but is most useful as a reference book...the author...writes clear and precise sentences and makes what can be a dry subject interesting to read.â • (E-STREAMS, October 2004)"...an admirable text for teaching...and also serves as a valuable reference...a real investment and an important desk reference for polymer synthesis chemists." (Polymer News)

The new edition of a classic text and referenceThe large chains of molecules known as polymers are currently used in everything from "wash and wear" clothing to rubber tires to protective enamels and paints. Yet the practical applications of polymers are only increasing; innovations in polymer chemistry constantly bring both improved and entirely new uses for polymers onto the technological playing field. Principles of Polymerization, Fourth Edition presents the classic text on polymer synthesis, fully updated to reflect today's state of the art. New and expanded coverage in the Fourth Edition includes:Metallocene and post-metallocene polymerization catalystsLiving polymerizations (radical, cationic, anionic)Dendrimer, hyperbranched, brush, and other polymer architectures and assembliesGraft and block copolymersHigh-temperature polymersInorganic and organometallic polymersConducting polymersRing-opening polymer izationIn vivo and in vitro polymerizationAppropriate for both novice and advanced students as well as professionals, this comprehensive yet accessible resource enables the reader to achieve an advanced, up-to-date understanding of polymer synthesis. Different methods of polymerization, reaction parameters for synthesis, molecular weight, branching and crosslinking, and the chemical and physical structure of polymers all receive ample coverage. A thorough discussion at the elementary level prefaces each topic, with a more advanced treatment following. Yet the language throughout remains straightforward and geared towards the student.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.

While Hiemenz/Lodge-Polymer Chemistry supplies good detail it is a bit dry. I have often referred to Odian to clarify a concept in more understandable terms. Additionally, some of the examples in Lodge are terrible. Polymer Chemistry was the required text for my Polymers course and Odian has helped me tremendously for test prep, etc. I would highly recommend the purchase. Regarding quality, book was new as described with fast shipping.

Good book that covers all the basics of polymer science.

The Bible in Polymers as they say, really helpfull!

I can see this being more useful to someone who has been in the field for years but certainly not a textbook students to learn from. The author gives a dry, boring journey into polymers that is more encyclopedic than learning.

It is amazing to find out the book is totally new. I am glad to get it by half of the price for a new book. It worthes.

Anyone else's book binding falling apart and is just so poorly put together or is it just mine?

I paid for 1 day, overnight shipping; however, I have not received my package after 1 day. I needed the book for class and now I won't have it.

The book is becoming quickly outdated and lacks a comprehensive review of major advances in polymer chemistry. The book has a strong focus on reaction kinetics and equations as it pertains to both step growth and free radical chemistries, however, the synthesis and applications are lacking. The book could use a much better section on controlled radical polymerization. Overall not in love with the book, but it provides a solid fundamental understanding of polymer chemistry.

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