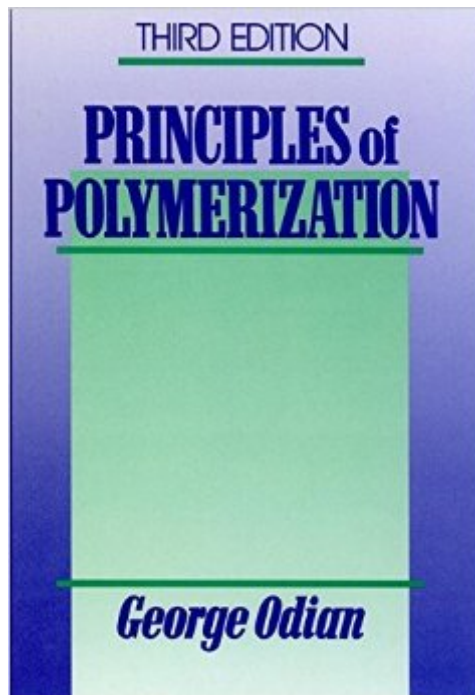


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# Principles Of Polymerization, 3rd Edition



## 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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Average Customer Review: 3.6 out of 5 stars [See all reviews](#) (16 customer reviews)

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## Customer Reviews

The book is becoming quickly outdated and lacks a comprehensive review of major advances in polymer chemistry.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.

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.

I took a course last year in Polymer Chemistry and this text was the standard text book. It was an amazingly great reference book. This book mainly target on Polymerization synthesis and characterization. If you are interested in the mechanical properties of polymer, you should look for other one. But this is a must for all polymer chemists and material scientists who are interested in polymer processing.

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.

I did some synthesis through my BS, MS, and even PhD career, and used a number of books in order to truly master the subject. Overall, I recommend Sperling's book, Allcock's, Rodriguez, and Craver & Provder. I used other editions of these books during my BS when I was doing synthesis.

I have been using this book for several years, including a term where it was the primary text for a graduate-level Introduction to Polymers course. As textbooks go, I have found this one relatively easy to read, and the concepts easy to follow. It is quite comprehensive, but assumes an undergraduate background in organic and physical chemistry. Since the course, it has been a handy reference in my research, though, as someone else noted, it is lacking in respect to living polymerizations, particularly Atom Transfer Radical Polymerization. However, Odian's work remains one of the most useful textbooks from my graduate classes.

Good book that covers all the basics of polymer science.

The Bible in Polymers as they say, really helpful!

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