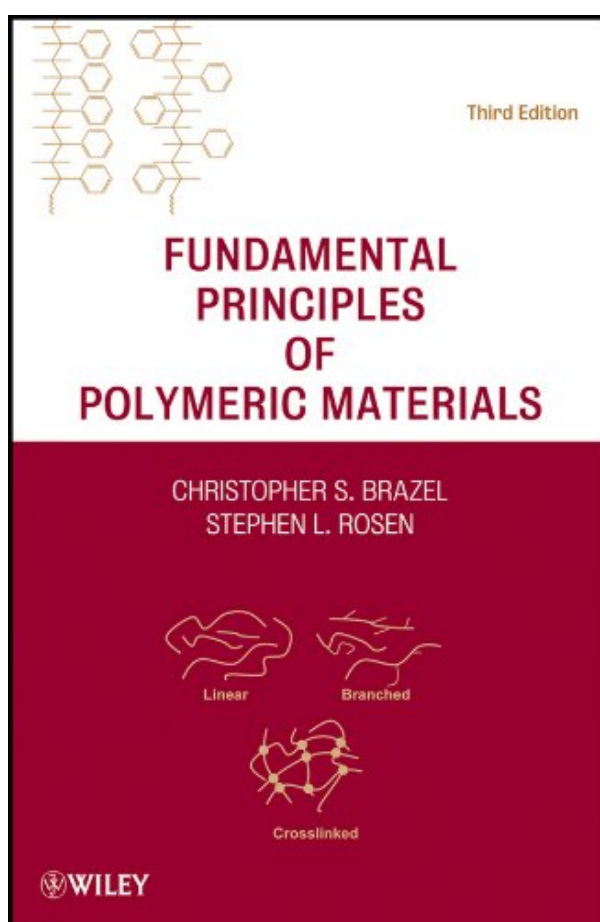
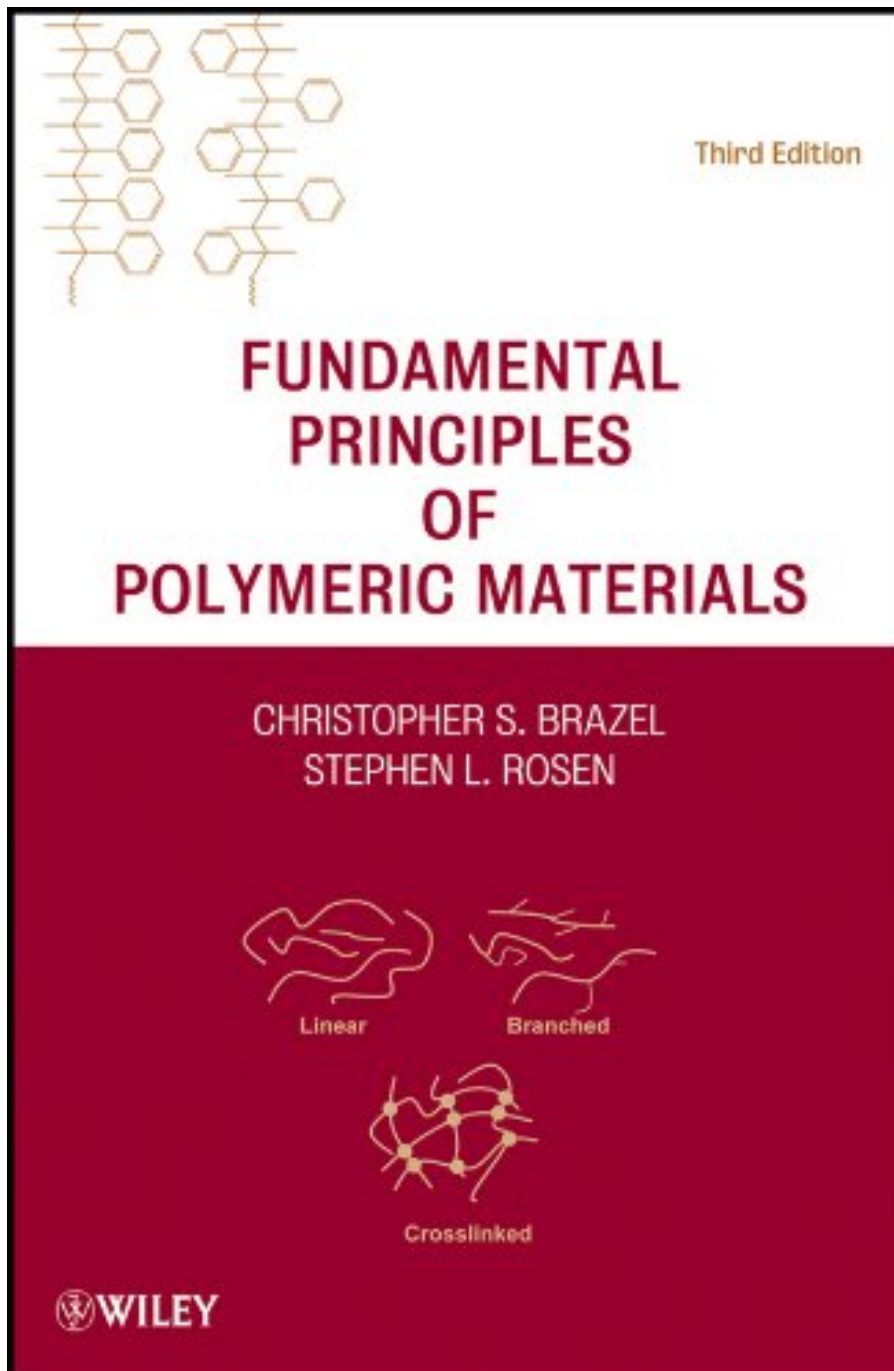


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FUNDAMENTAL PRINCIPLES OF POLYMERIC MATERIALS

BY CHRISTOPHER S. BRAZEL, STEPHEN L. ROSEN PDF

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.

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- Format: Kindle eBook

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5 of 5 people found the following review helpful.

Great Book for Starting Out

By Brandon Barrett

This is an excellent book for the novice--concepts are introduced at a leisurely pace and considerable time is taken to develop them. The tone is slightly casual, and the book as a whole is entirely unimimidating and accessible. Advanced concepts are absent so if you're looking to advance your knowledge to the next level, you'd be better off looking elsewhere. This is, however, one of the only textbooks I've owned that I've been able to read large portions of in a single sitting; I don't want to say it's like reading a novel, but it is as close as you're going to get with a textbook on rheology.

2 of 2 people found the following review helpful.

A good introductory text, 5-stars for chemical engineers

By Metallurgist

This is a good introductory textbook that is aimed at several possible audiences; chemical engineers, chemists, and engineers who deal with structural materials (metallurgists, mechanical engineers, civil engineers, and structural engineers in general). The book covers all aspects of polymeric materials - their chemistry, structure, synthesis, properties and processing. Being an introductory text only the basic ideas of these topics are covered, but there are adequate references to allow the reader to delve more deeply into any of these subjects. The book contains solved examples and unsolved homework problems. Being an introductory text, it is oriented to several possible audiences; so let me therefore consider the book from the perspective of these possible audiences.

1) Engineers interested in structural materials. As a metallurgist, I put myself into this category. Like most engineers in this category I have not been formally exposed to any organic chemistry, although I have had much more of a physical and inorganic chemistry than most structural engineers. I found that the lack of an organic chemistry background was an impediment to getting the most from this book, but not an insurmountable one. I did not feel that there was enough background material in the part of the book on polymer fundamentals for me to understand all of the material that was presented, and I would have liked an appendix that provided the necessary organic chemistry fundamentals. However, this did not prevent me from getting a lot from the rest of the book. All in all, I liked this book and while I did not have enough of an organic chemistry background to understand all of it, I definitely had enough to learn a lot about:

- a. Types of polymers, including their structures, synthesis, the determination of molecular weights and polymer solutions
- b. Polymer melting and glass transition behavior
- c. The thermodynamics of rubber elasticity
- d. Rheology of polymers
- e. Viscoelasticity and polymer deformation in general

I have a good background in chemical thermodynamics and physical chemistry so the sections on thermal transitions and solutions were no problem for me. Most engineers should have enough of a thermodynamics background to handle the use of the thermodynamics approach to rubber elasticity, but the solutions section will likely be difficult for them. On the plus side, they should be very familiar with the deformation concepts discussed in the book (including tension, creep, stress relaxation and dynamical testing), so the sections applying these concepts to polymers should be very helpful to them - they were for me. Overall, for myself and for this group in general I would give the book a solid 4-stars.

2. Chemists - They should have no problems with the chemistry and structures of polymers. Likewise, with those sections that bear heavily on thermodynamics. However, the sections on rheology and mechanical properties may be challenging. A background appendix would have been helpful for these readers. I would also rate the book 4-stars for this group.

3. Chemical Engineers. The authors of the book are both chemical engineers, so it is not surprising that the book is best suited for this group. They should have all of the necessary background and the book appears to be tailored for them, so I would rate the book 5-stars for this group. It appears to be an excellent chemical engineering text. I am only using the word appears because I am not a chemical engineer and do not therefore have the proper background to make a definitive statement about this.

The book definitely improved my understanding of this class of materials and I recommend it with the proviso that those without a sufficient organic chemistry may not get as much from it as they could have had they had this knowledge. Likewise, a chemist will likely lack all the required background in deformation that would allow them to get the most from the areas of the book that deal with this subject. The book is probably best for chemical engineers.

0 of 0 people found the following review helpful.

A great way to get started with Polymeric materials~

By Christopher Barrett

This text seems to be geared towards chemical engineering students, especially those in upper level courses or specific graduate programs, or novices to the field specific to polymers. The information is well presented and within grasp for those with a decent background in inorganic chemistry. Those with specific interests in the solid/liquid state polymers will find some refreshing new insight into this realm. Liquid crystal polymers are well explained as well.

Much of the text involves upper level chemistry principles and physics principles, so it might be over the head of those without the necessary background, but it is written in a way that even if one doesn't quite grasp a particular concept (such as Flory-Huggins theory to site an example - nightmares from chemistry 2310 resurfacing!). Having a good grasp of upper level chemistry I was able to skim through the text and was quite pleased with the content as well as the layout. As always, Wiley has put a rather nice "See Inside" feature together for the Amazon listing.

The sections of the book cover:

Part 1: Polymer Fundamentals

Part 2: Polymer Synthesis

Part 3: Polymer Properties

Part 4: Polymer Processing and Performance

I highly recommend this text for anyone in a field where they will be engineering or manipulating polymeric materials.

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