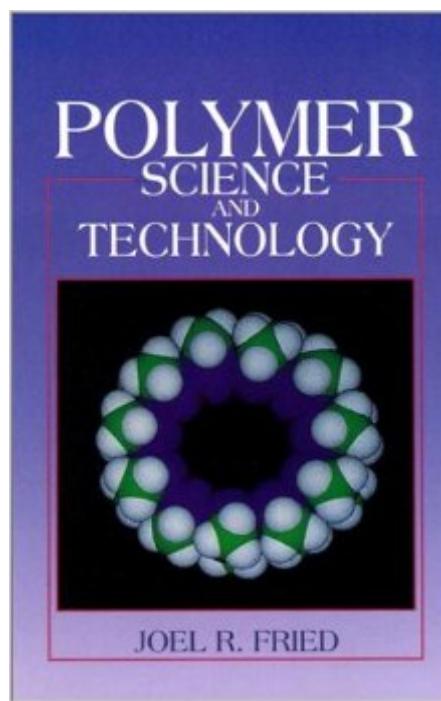


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# Polymer Science And Technology



## **Synopsis**

This reference provides coverage of the principles of polymer science and engineering with applications in chemical engineering, materials science and chemistry. In addition to synthetic polymer chemistry, it also looks at the properties of polymers in various states (solution, melt, rubber, solid). Three chapters provide a survey of the important categories of plastics including commodity thermoplastics and fibers, elastomers and thermosets, and engineering and specialty polymers. Basic polymer processing principles are explained as well as in-depth application of the latest polymer applications in the medical, biotechnology, electronics and chemical industries.

## **Book Information**

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## **Customer Reviews**

This textbook provides a good introduction to polymers, their processing, applications, and properties. The book assumes minimal prior knowledge of polymers, and begins with a simple intro to properties such as glass transition temperature, molecular weight, thermoplastic versus thermoset. Electrical, mechanical, and chemical properties of polymers are discussed and related to the structure and composition of the material. The book is organized very well. It includes dedicated chapters on synthesis, processing, degradation, and for the different classes of polymers. Each chapter is short and can stand alone by itself. A short list of references is also provided at the end of each chapter, and these are organized according to the different sections in each chapter. The level of the text is appropriate for juniors or seniors in engineering or chemistry. The math is kept at a simple level; nothing harder than integral calculus, and there are a lot of pictures and diagrams. The

amount and scope of information also warrants purchasing this as a general reference for polymers. I recommend this book for those who are learning about, or teaching about polymers.

This is a really nice introduction to polymers, and covers most major topics. It nicely complements the Intro to Polymers book by Young and Lovell (also another nice intro book). This book is geared for science majors and engineers. It has some basic math (algebra and a little calculus), and assumes a basic understanding of chemistry and organic chemistry. I also like that it reads well on a Kindle (Kindle PC App and iPad Kindle app). Chemical structures are graphically clear, and the mathematical equations in the book are readable. Not the best Kindle formatted book I've seen, but not bad.

Excellent Book. I use it for my grad class. Covers most topics that are required to gain a sufficient introductory knowledge in polymer science. I would recommend it to undergrads as well as grad students.

A great text for Materials Chemistry subjects at University. This book displays a great deal of information both calculatory and chemically which complements the text from all levels. Plastics look out!!!!

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