



# Fundamentals of Polymers: Raw Materials to Finish Products

Niranjan Karak

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### **Fundamentals of Polymers: Raw Materials to Finish Products**

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#### Fundamentals of Polymers: Raw Materials to Finish Products Niranjan Karak

This systematically organized text gives a clear understanding of the basic concepts of polymer science and technology and presents the preparation, characterization, properties and applications of polymers.

The book discusses the raw materials for polymers, polymer forming processes and the various techniques of polymerization. It explains the modification of polymers and all types of additives used with polymers in their end applications. The book also describes the analytical, instrumental and spectroscopic techniques for testing and characterizing polymers, as well as covers the structures and properties of polymers along with their processing and applications. Thermoplastic and thermosetting polymers with a main focus on their manufacturing processes, structures and properties are also discussed. A comparative study of conventional linear polymers and advanced highly branched macromolecules has been included. Finally, a discussion on the basic idea and manufacturing process of some polymer-based industrial products adds value to this text.

#### **KEY FEATURES**

- Presents advanced topics such as dendritic polymers and polymer nanocomposites.
- Includes a number of illustrations to reinforce the understanding of the subject.
- Contains chapter-end exercises for practice.

This book is designed for the undergraduate and postgraduate students of chemical engineering, polymer science and technology, and rubber science and technology. It is also useful to postgraduate students of applied and industrial chemistry.



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