



Fundamentals of Polymer Chemistry: Principles, Methods, Properties and Applications, 1/e

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About the Book

Polymer Chemistry is a subdiscipline of chemistry that focuses on the chemical synthesis, structure and chemical and physical properties of polymers and macromolecules. The principles and methods used in polymer chemistry are also applicable through a wide range of other subdisciplines like Organic Chemistry, Analytical Chemistry and Physical Chemistry.

Polymer Chemistry can also be included in broader fields of Polymer science or even nanotechnology, both of which can be described as encompassing polymer physics and polymer engineering.

This book provides a comprehensive introduction and circumscribes the recent development in the realm of polymer science in a multi-mode model. The book emphasizes both theoretical perspectives along with examples to make readers understand the subject in depth alongside also presents subjective, objective-cum-numerical problems enabling students to prepare for various competitive examinations.

Salient Features

Introduces polymer science to both graduate-level students.

Features the recent developments in the realm of the polymer industry, thereby giving a comprehensive overview of the subject both from an academic and industrial perspective.

The numericals along with the subjective and the objective questions give the students a holistic perspective to understand Polymer Science. Several examples and case studies are given, making the students easier to relate to the theoretical knowledge.

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About the Author

Abhijit Bandyopadhyay :- is a full Professor in the Department of Polymer Science and Technology, University of Calcutta, India. He is also the Technical Director of South Asia Rubber & Polymers Park (SARPOL), West Bengal. He has more than 100 publications in various renowned international journals. He has more than 16 years of teaching and research experience. His main areas of research include Hyperbranched Polymers for Industrial and Bioapplications, Photophysical Properties of Polymers, Polymer Nanocomposites, Polymer Blends and Composites, and Polymer 3D Printing.

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