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Scientists, engineers, or other technical staff with a B.S. or higher degree in chemistry, biochemistry, chemical engineering, or material science who need a comprehensive, up-to-date overview of polymer scienc. No prior knowledge of polymer chemistry is assumed. Prerequisite: Equivalent of one year each of organic chemistry and physical chemistry.

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Mathematical analysis. Since the book focuses on the ultimate property of the finished product, it minimizes laborious descriptions of experimental procedures used for the characterization of polymers. Instead, the author highlights how the various stages involved in the production of the finished product influence its properties. Well-organized, clear-cut, and user-friendly, Polymer Science and Technology is an outstanding textbook for teaching junior and senior level undergraduates and first year graduate students in an introductory course covering the challenging subject of polymers.

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Networks. This is also the first introductory polymer text to fully explain computational polymer science, including molecular dynamics and Monte Carlo methods. Simulation concepts are supported with many application examples, ranging from prediction of PVT values to permeability and free volume. Fried thoroughly covers synthetic polymer chemistry; polymer properties in solution and in melt, rubber, and solid states; and all important categories of plastics. This revised edition also adds many new calculations, end-of-chapter problems, and references. In-depth coverage includes Polymer synthesis: step- and chain-growth; bulk, solution, suspension, emulsion, solid-state, and plasma; ionic liquids, and macromers; and genetic engineering Amorphous and crystalline states, transitions,

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Plastics, Rubbers, Blends and Composites, 2/e is a renewed outcome of an endeavour in this direction. This revised edition of a widely acclaimed reference and text has been enhanced to give a balanced coverage of the science and technology of polymers, which lend themselves useful as rubbers, plastics, fibres, adhesives, coating and composites. The book has also been designed to have an interdisciplinary relevance and would be of immense use not only to college and university students in the subject area but also entrepreneurs and professionals in diverse area of industrial activity

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