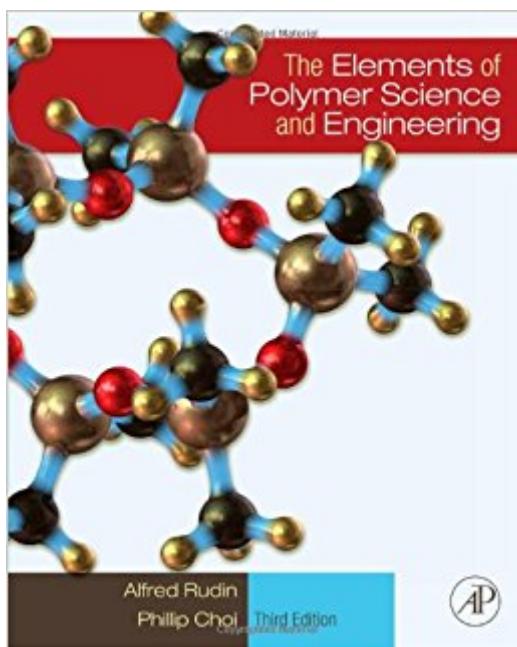


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The Elements Of Polymer Science And Engineering, Third Edition (Elements Of Polymer Science & Engineering)



Synopsis

The Elements of Polymer Science and Engineering, Third Edition, is a textbook for one- or two-semester introductory courses in polymer science and engineering taught primarily to senior undergraduate and first-year graduate students in a variety of disciplines, but primarily chemical engineering and materials science. Since the publication of the second edition in 1999, the field of polymers has advanced considerably. A key feature of this new edition is the inclusion of new concepts such as polymer nanocomposites and metallocene catalysts in existing chapters as well as new chapters covering selected contemporary topics such as behavior of natural polymers, polymer dynamics, and diffusion in polymers. This book has been completely reorganized to become more aligned with how instructors currently teach the course. There are now several enhancements to the book's pedagogy, including the addition of numerous worked examples and new figures to better illustrate key concepts and the addition of a large number of end-of-chapter exercises, many of which are based on recently published research and relevant industrial data. This third edition will appeal to advanced undergraduate and graduate students in the physics, chemistry, and chemical engineering departments who are taking courses related to polymer science and engineering, as well as engineers new to the field of polymers. Focuses on applications of polymer chemistry, engineering, and technologyExplains terminology, applications, and versatility of synthetic polymersConnects polymerization chemistry with engineering applicationsContains practical lead-ins to emulsion polymerization, viscoelasticity, and polymer rheology

Book Information

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"The textbook has been a solid teaching text for introductory polymer science and engineering courses....It remains a very good textbook for many introductory concepts and is thought out and developed well for teaching purposes." --Eli Pearce, Polytechnic University, Brooklyn, NY, Polymer News, 1999

Whether you are an upper or graduate level student studying polymer science and engineering or an engineer new to the field of polymers, you'll benefit from reading The Elements of Polymer Science and Engineering 3e. Since the publication of the second edition in 1999, the field of polymers has advanced considerably. A key feature of the third edition is the inclusion of new concepts such as polymer nanocomposites and metallocene catalysts in existing chapters as well as new chapters covering selected contemporary topics such as behavior of natural polymers, polymer dynamics, and diffusion in polymers. The book has been completely reorganized to become more aligned with how instructors currently teach the course. In addition there are several enhancements to the book's pedagogy that make it more appealing to both instructors and students, including the addition of new worked examples and new figures to better illustrate key concepts, and new of end-of-chapter exercises, many of them based on recently published research and relevant industrial data.

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