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Fundamentals Of Polymer Engineering, Revised And Expanded (Plastics Engineering)



Synopsis

Exploring the characterization, thermodynamics and structural, mechanical, thermal and transport behavior of polymers as melts, solutions and solids, this text covers essential concepts and breakthroughs in reactor design and polymer production and processing. It contains modern theories, end-of-chapter problems and real-world examples for a clear understanding of polymer function and development. Fundamentals of Polymer Engineering, Second Edition provides a thorough grounding in the fundamentals of polymer science for more advanced study in the field of polymers. Topics include reaction engineering of step-growth polymerization, emulsion polymerization, and polymer diffusion.

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Customer Reviews

"Concise but still consistent the authors show how it is possible to couple the laws of mass, momentum, and energy conservation with the knowledge on the fundamentals of polymer behavior Complementary to the text, each chapter ends with selected problems which contribute to its better understanding The book covers, in a systematic and clear presentation, the essential problems of polymer science [T]his book is a very useful material for advanced undergraduate and graduate students, professors, and designer engineers, as well as for the specialists working in the synthesis, processing, and polymer exploitation." - Memoriile Sectiilor Stiintifice, Vol. 4, No. 26, 2003

I am the student of one of the author. The writing style of this book just like the teaching style of my advisor, very clear and precise. The home work at the end of each chapter helps students understand the fundamentals of polymer engineering better. I am very lucky to be taught by one of the authors.

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