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Provides the basic background needed by engineers to determine experimentally and interpret the rheological behavior of polymer melts--including not only traditional

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pure melts but also solutions and compounds containing anisotropic (fiber or disc) or colloidal particles--and apply it to analyze flow in processing operations.

Experimental foundations of modern rheology and rheo-optics and the interpretation of experimental data are covered, which also develops the fundamentals of continuum mechanics and shows how it may be applied to devise methods for measurement of rheological properties, formulation of three-dimensional stress-deformation relationships, and analysis of flow in processing operations. Also discusses the structure of polymers and considers rheological behavior in terms of structure. Constitutive equations relating stress to deformation history in non-

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Newtonian fluids and their applications are discussed. Each chapter presents an overview of the subject matter and then develops the material in a pedagogical manner.

"Principles of Polymer Science introduces several basic and advanced aspects of polymers for the undergraduate and graduate students in chemistry, chemical engineering and materials science. The second and thoroughly revised edition includes the technical aspects of synthesis, characterization, behaviour and technology in a straightforward and lucid manner. Separate chapters on natural, inorganic and specialty polymers would attract readers from interdisciplinary courses."--BOOK JACKET.

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This introductory text is intended as the basis for a two or three semester course in synthetic macromolecules. It can also serve as a self-instruction guide for engineers and scientists without formal training in the subject who find themselves working with polymers. For this reason, the material covered begins with basic concepts and proceeds to current practice, where appropriate. Serves as both a textbook and an introduction for scientists in the field Problems accompany each chapter

Principles of Polymer Engineering 2nd edition (OUP, 1997) is a text for students in their third year. It is an integrated, complete, and stimulating introduction to polymer engineering suitable for a core course in

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How can a scientist or engineer synthesize and utilize polymers to solve our daily problems? This introductory text, aimed at the advanced undergraduate or graduate student, provides future scientists and engineers with the fundamental knowledge of polymer design and synthesis to achieve specific properties required in everyday applications. In the first five chapters, this book discusses the properties

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and characterization of polymers, since designing a polymer initially requires us to understand the effects of chemical structure on physical and chemical characteristics. Six further chapters discuss the principles of polymerization reactions including step, radical chain, ionic chain, chain copolymerization, coordination and ring opening. Finally, material is also included on how commonly known polymers are synthesized in a laboratory and a factory. This book is suitable for a one semester course in polymer chemistry and does not demand prior knowledge of polymer science.

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