



Polymers From the Inside Out: An Introduction to Macromolecules

Alan E. Tonelli

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Polymer science is concerned with the structure, synthesis, physical properties, and utility of polymers. Polymers are macromolecular building blocks used to construct natural and man-made materials. *Polymers from the Inside Out: An Introduction to Macromolecules* provides an all-encompassing introduction to polymers and how they affect the world.

Offering a clear explanation of the unique properties exhibited by polymers, this book explores the detailed microstructures of polymers and their internal responses to stress and the environment. *Polymers from the Inside Out* appeals to a wide range of disciplines, including polymer, organic, materials, and physical chemistry, as well as textile science and engineering.

Chapters include:

- Physical properties unique to polymeric materials
- Step-growth and chain-growth polymerizations
- Microstructures of polymers
- Conformational characteristics of polymers developed with the rotational isomeric states model
- Solution and bulk properties of polymers
- Biopolymers

Discussion questions appropriate for first- and second-semester polymer students at the end of every chapter. *Polymers from the Inside Out* is designed to facilitate either a one-semester or two-semester course on polymers and is an essential resource for the practicing scientist.

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