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Description. This unified approach to polymer materials science is divided in three major sections: - Basic Principles - covering historical background, basic material properties, molecular structure, and thermal properties of polymers. - Influence of Processing on Properties - tying processing and design by discussing rheology of polymer melts, mixing and processing, the development of anisotropy, and solidification processes.

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Materials Science of Polymers for
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Menges, Hanser Publishers, 1989), and on
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background, basic material properties, molecular structure, and thermal properties of polymers.

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A polymer (the name means "many parts") is long chain molecule made up many repeating units, called monomers.

Polymers can be natural (organic) or synthetic. They are everywhere: in plastics (bottles, toys, vinyl siding, packaging), cosmetics, shampoos and other hair care products, contact lenses, nature (crab shells, amber), food (proteins, starches, gelatin, gum, gluten), fabric, balls, sneakers, and even in your DNA!

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This unified approach to polymer materials science is divided in three major

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Sections: Basic Principles covering historical background, basic material properties, molecular structure, and thermal properties of polymers. Influence of Processing on Propertiestyng processing and design by discussing rheology of polymer melts, mixing and processing, the development of anisotropy, and solidification processes.

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As stated previously, natural polymers have been used for ages – wood and cotton, for example, are made of natural polymer. But the earliest examples of actual polymer chemistry really start in the 1830s, when people began experimenting with reactions of cotton – cotton, of course, being cellulose.

Brief History of Polymers | MATSE 202:

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Introduction to ...

Polymers, including natural proteins (such as DNA) and artificial materials (such as nylon and polyester), are examples of macromolecules. materials scientist

Someone who studies the ways in which the atomic and molecular structure of a material relates to its overall properties.

Materials scientists can design new materials or analyze existing ones.

Explainer: What are polymers? | Science News for Students

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demands the creation of new materials
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Polymers are materials made of long,
repeating chains of molecules. The
materials have unique properties,
depending on the type of molecules being
bonded and how they are bonded. Some
polymers bend...

What Is a Polymer? | Live Science
Polymer science or macromolecular
science is a subfield of materials science

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concerned with polymers, primarily synthetic polymers such as plastics and elastomers. The field of polymer science includes researchers in

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