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Polymers for Engrs. - 3rd edition. Materials Science of Polymers for Engineering -. Shop Us With Confidence. Summary. 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.

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stoffkunde Kunststoffe (G. Menges, Hanser Publishers, 1989), and on lecture notes from polymer materials science courses taught at the Technical University of

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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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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:
Introduction to ...

Polymers, including natural proteins (such as DNA) and artificial materials (such as nylon

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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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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...

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What Is a Polymer? | Live Science

Polymer science or macromolecular science is a subfield of materials science concerned with polymers, primarily synthetic polymers such as plastics and elastomers. The field of polymer science includes researchers in

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The Materials Science Suite provides chemical structure and polymer builders, a chemically adaptable cross-linking simulation module (Crosslink Polymers), automated thermophysical and mechanical response

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Polymeric Materials | Schrödinger
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basic material properties, molecular structure, and thermal properties of polymers.

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The research on advanced functional polymers is being driven by the fast-growing demand for new functional materials that can be used in revolutionary technologies. Polymers can be endowed with functions by using certain special preparation methods or by introducing functional groups or fillers into materials.

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