



Learn to create lightweight, versatile polymeric materials using cutting-edge polymer nanocomposite technology

This thoroughly revised guide offers a concise introduction to polymer nanocomposites and how they can be used in the aerospace, defense, transportation, construction, energy, health care, textile, and packaging industries.

Ideal for engineers who use nanomaterials in real-world situations and advanced students in material science and engineering, *Polymer Nanocomposites Properties and Applications, Second Edition* begins with an overview of key technologies and processes. Each chapter then examines a different property (structural, mechanical, thermal, flammability, ablation, and electrical) and explains relevant commercial and industrial applications. Examples for a wide variety of uses include coatings for planes and defense vehicles, medical and dental implants, and fire-resistant fabrics.

- Explains methods and technologies for working with the latest types of commercially available nanomaterials
- Connects the properties of polymer nanocomposites to specific industrial applications
- Covers an expanded range of industries and sectors
- Written by a recognized polymer nanocomposite expert and academic

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