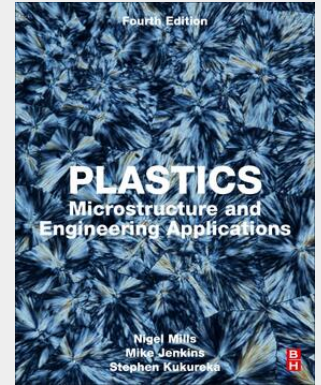


Plastics

Microstructure and Engineering Applications

Plastics: Microstructure and Applications is a key text for senior students studying the science and engineering of plastics materials (or polymers) and will serve as a valuable introduction to the fundamentals of polymer properties for those new to the field. Starting from microstructure and physical properties, the book covers the mechanical, chemical, transport and electrical properties of plastics materials and also deals in detail with wider issues that today's engineers and materials scientists need, such as manufacturing processes and the design of plastics products. A thorough revision of the book for this 4th edition reflects advances in the field by including more detailed discussion of characterization techniques, crystallization and molecular structure, thermoplastic composites, 3D printing and electrical properties of plastics. The chapter on materials and shape selection covers sustainability, life cycle analysis and waste disposal considerations for plastics materials.



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