Introduction to Physical Polymer Science (Hardback)

By Leslie Howard Sperling

John Wiley and Sons Ltd, United Kingdom, 2006. Hardback. Condition: New. 4th Edition. Language: English . Brand New Book. An Updated Edition of the Classic Text Polymers constitute the basis for the plastics, rubber, adhesives, fiber, and coating industries. The Fourth Edition of Introduction to Physical Polymer Science acknowledges the industrial success of polymers and the advancements made in the field while continuing to deliver the comprehensive introduction to polymer science that made its predecessors classic texts. The Fourth Edition continues its coverage of amorphous and crystalline materials, glass transitions, rubber elasticity, and mechanical behavior, and offers updated discussions of polymer blends, composites, and interfaces, as well as such basics as molecular weight determination. Thus, interrelationships among molecular structure, morphology, and mechanical behavior of polymers continue to provide much of the value of the book. Newly introduced topics include: â Nanocomposites, including carbon nanotubes and exfoliated montmorillonite clays â The structure, motions, and functions of DNA and proteins, as well as the interfaces of polymeric biomaterials with living organisms â The glass transition behavior of nano-thin plastic films In addition, new sections have been included on fire retardancy, friction and wear, optical tweezers, and more. Introduction to Physical Polymer Science,...

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