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Offering improved barrier properties, fire resistance, and strength, polymer nanocomposites are a valuable as coating, structural, and packaging materials in a wide range of automobile, civil, and electrical engineering applications. Polymer Nanocomposites offers a comprehensive review of the main types of polymer nanocomposites and their properties. Part I reviews the range of layered silicates and discusses such properties as flammability, thermal stability, barrier properties, wear resistant and biodegradability. Part II considers nanotubes, nanoparticles, inorganic-organic hybrid systems, elasticity and strength analyses, and magnetic and light-emitting properties.