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Nota di contenuto	pt. 1. Types of polymer nanocomposites according to fillers -- pt. 2. Types of polymer nanocomposites according -- pt. 3. Applications of polymer nanocomposites.
Sommario/riassunto	The addition of nanoparticles to polymer composites has led to a new generation of composite materials with enhanced and novel properties. Advances in polymer nanocomposites reviews the main types of polymer nanocomposites and their applications. Part one reviews types of polymer nanocomposites according to fillers. Processing of carbon nanotube-based nanocomposites, layered double hydroxides (LDHs) and cellulose nanoparticles as functional fillers and reinforcement are discussed, alongside calcium carbonate and metal-polymer nanocomposites. Part two focuses on types of polymer nanocomp