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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction -- Organic-Inorganic Polymer Hybrids: Synthetic Strategies and Applications -- Polymer-Tethered Nanoparticle Materials -- An Emerging Platform for Multifunctional Hybrid Materials -- Multiferroic Magnetoelectric Composites/Hybrids -- Clay/Polymer Nanocomposites: Processing, Properties and Applications -- Medical Applications of Hierarchical Composites -- Electrochemical Hierarchical Composites -- Bioinspired Structural Hierarchical Composites -- Hierarchical Composites Containing Carbon Nanotubes.

## Sommario/riassunto

This book addresses a broad spectrum of areas in both hybrid materials and hierarchical composites, including recent development of processing technologies, structural designs, modern computer simulation techniques, and the relationships between the processing-structure-property-performance. Each topic is introduced at length with numerous and detailed examples and over 150 illustrations. In addition, the authors present a method of categorizing these materials, so that representative examples of all material classes are discussed.

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