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Inorganic Nanomaterials from Nanotubes to Fullerene-Like Nanoparticles: Fundamentals and Applications (World Scientific Series in Nanoscience and Nanotechnology)

Reshef Tenne

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Following the striking discovery of carbon fullerenes and carbon nanotubes, it was realized by the author and his teammates in 1992 that such nanostructures are not unique to carbon. In fact, hollow closed structures are common to probably most if not all inorganic compounds with layered structures, like WS_2, $MoSe_2$, BN, NiCl

The book takes the reader from the discovery stage, where some fundamental ideas in this field were developed, through the systematic effort to synthesize IF and INT in larger amounts and elucidate their structure. In a few cases, like BN nanotubes and WS2 IF nanoparticles, new strategies permitted synthesis of macroscopic amounts and subsequently systematic study of their properties, offering thereby numerous applications. The reader is taken through this never-ending evolutionary process with a few recent examples demonstrated. The field stands in the crossroads between solid state inorganic chemistry, nanotechnology, materials chemistry and nanomechanical engineering.

Readership: Researchers and advanced graduate students in the fields of inorganic solid state chemistry; materials chemistry; nanotechnology; mechanical engineering; tribology and the field of nanocomposites.

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