DESCRIPTION

During the last decade, fullerenes and carbon nanotubes have attracted special interest as new nanocarbons with novel properties. Because of their hollow caged structure, they can be used as containers for atoms and molecules, and nanotubes can be used as miniature test-tubes.

*Chemistry of Nanocarbons* presents the most up-to-date research on chemical aspects of nanometer-sized forms of carbon, with emphasis on fullerenes, nanotubes and nanohorns. All modern chemical aspects are mentioned, including noncovalent interactions, supramolecular assembly, dendrimers, nanocomposites, chirality, nanodevices, host-guest interactions, endohedral fullerenes, magnetic resonance imaging, nanodiamond particles and graphene. The book covers experimental and theoretical aspects of nanocarbons, as well as their uses and potential applications, ranging from molecular electronics to biology and medicine.

ABOUT THE AUTHOR

Fred Wudl is a Professor of Chemistry and Materials and Co-Director of the Center for Polymers and Organic Solids at the University of California, Santa Barbara. He is most widely known for his work on organic conductors and superconductors. Currently he is interested in the optical and electrooptical properties of processable conjugated polymers as well as in the organic chemistry of fullerenes.
Shigeru Nagase is Professor at the Institute for Molecular Science, Okazaki, Japan. He has made a wide range of original contributions in theoretical and computational chemistry. He has performed many important studies of fullerene, endofullerenes, carbon nanotubes and carbon peapods as well as silicon and germanium clusters.

Takeshi Akasaka is Professor at the Center for Tsukuba Advanced Research Alliance TARA Center) and Department of Chemistry, University of Tsukuba, Japan. His research interests cover the development and chemical functionalization of fullerenes, metallofullerenes, endofullerenes and carbon nanotubes.

To purchase this product, please visit https://www.wiley.com/en-us/9780470721957