



Endohedral Metallofullerenes: Fullerenes with Metal Inside

By Hisanori Shinohara, Nikos Tagmatarchis

John Wiley & Sons Inc. Hardback. Book Condition: new. BRAND NEW, Endohedral Metallofullerenes: Fullerenes with Metal Inside, Hisanori Shinohara, Nikos Tagmatarchis, The book will begin with an introduction to endohedral metallofullerenes, including a historical overview and discussion of early work in the field. This will be followed by detailed coverage of synthesis, extraction and purification, molecular and crystal structures, electronic and magnetic properties, device properties, nanotechnology-related topics, chemical functionalization, reactivity and nano-peapods (materials in which metal atoms are encapsulated inside carbon nanotubes). Later chapters will discuss applications of endohedral metallofullerenes, for example in molecular switching, single-molecular transistors, MRI and X-ray contrast agents and neutron cancer therapy. The book will conclude with future perspectives for the field. In view of their high-performance physical, chemical, device and biomedical properties, endohedral metallofullerenes are a unique and important class of nano-materials for nanotechnology. This book will therefore be a valuable reference source for researchers and students in the field of nanocarbons and nanomaterials in general.



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