



Graphene Science Handbook: Size-Dependent Properties (Hardback)

By -

Taylor Francis Inc, United States, 2016. Hardback. Condition: New. Language: English . Brand New Book. Size Up the Short- and Long-Term Effects of Graphene The Graphene Science Handbook is a six-volume set that describes graphene s special structural, electrical, and chemical properties. The book considers how these properties can be used in different applications (including the development of batteries, fuel cells, photovoltaic cells, and supercapacitors based on graphene) and produced on a massive and global scale. Volume One: Fabrication Methods Volume Two: Nanostructure and Atomic Arrangement Volume Three: Electrical and Optical Properties Volume Four: Mechanical and Chemical Properties Volume Five: Size-Dependent Properties Volume Six: Applications and Industrialization This handbook describes the fabrication methods of graphene; the nanostructure and atomic arrangement of graphene; graphene s electrical and optical properties; the mechanical and chemical properties of graphene; the size effects in graphene, characterization, and applications based on size-affected properties; and the application and industrialization of graphene. Volume five is dedicated to size effects in graphene, characterization, and applications based on size-affected properties and covers: * The use of graphene as a tunnel barrier for both charge and spin transport * The mechanical behavior of Kevlar-graphene fibers * Size-controlled graphene and cases of...



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