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Graphene Science Handbook: Size-Dependent Properties

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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 graphene nanostructures with size-dependent properties
- The applications of graphene as adsorbents, supporting and hybridization materials, and catalysts for removal of pollutants in contaminated water and air
- Recent research efforts to synthesize a variety of graphene-based structures
- The properties of indirect coupling between magnetic moments in monolayer graphene nanostructures
- The recent results of the electronic properties of graphene/metal systems
- Interface traps in graphene field-effect devices
- Semi-analytical models for the calculation of the quantum capacitance of both monolayer and bilayer graphene and its nanoribbons
- The various properties of mono- and multilayers of silicene compared with the corresponding properties of graphene

- The most relevant data obtained in the field of the vibrational characterization of graphene and graphene-based materials and more

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