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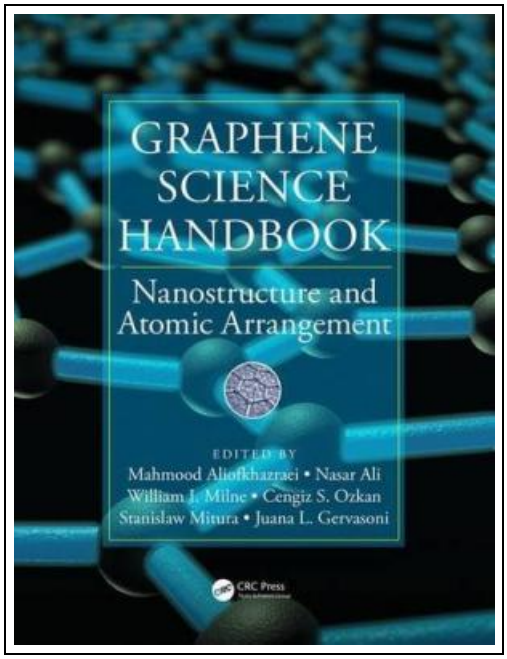

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(Dr. Rosie Kuphal)

GRAPHENE SCIENCE HANDBOOK: NANOSTRUCTURE AND ATOMIC ARRANGEMENT (HARDBACK)

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Taylor Francis Inc, United States, 2016. Hardback. Condition: New. Language: English . Brand New Book. Examines the Low Resistivity, High Mobility, and Zero Bandgap 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 two is dedicated to nanostructure and atomic arrangement and covers: * The potential applications of graphene heterostructures, particularly, graphene/h-BN heterostructures * Atomic-scale defects in graphene and the huge impact they have on its low-energy electronic structure * Recent findings on graphene plasmonics * The storage of hydrogen between graphene and inside graphene-oxide frameworks (GOFs) * The nitrogen contents, species, synthesis methods, and application on nitrogen-doped graphene * Modification methods and applications of graphene and graphene oxide * Phonon spectra and vibrational thermodynamic characteristics of graphene nanofilms * The imaging of graphene by scanning electron microscopy (SEM) * Advances in the formation of graphene-based three-dimensional (3D) architectures and more.

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