

“Fragments of Fullerenes and Carbon Nanotubes: Designed Synthesis, Unusual Reactions, and Coordination Chemistry”, John Wiley & Sons, 2011

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This book is the first of its kind to reflect upon the intense and rapidly growing interest in a new class of aromatic hydrocarbons, namely open geodesic polyarenes that map onto the surfaces of fullerenes (and therefore often referred to as “fullerene fragments” or buckybowls). It presents fundamental research related to this class of curved and strained polyarenes, specifically focusing on their synthesis and reactivity in reduction and metal binding reactions. The book broadly covers all aspects related to the fullerene and nanotube fragment chemistry: current synthetic techniques, description of the available members of this new family including buckybaskets and nanobelts, their molecular geometry and trends in the solid state packing, as well as extensions into physical properties and new buckybowl-based materials.

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