



Perspectives of Fullerene Nanotechnology

By Eiji Omacrsawa

Springer Mai 2012, 2012. Taschenbuch. Book Condition: Neu. 235x155x20 mm. Neuware - Inhaltsangabel. Plenary Lectures.- Past, Present and Future of Fullerene Nanotubes: Buckytubes.- Novel Nanostructures: from Metal-Filled Carbon Nanotubes to MgO Nanoferns.- II. Overview.- Some Aspects of Fullerene Application.- Commercial Production of Fullerenes and Carbon Nanotubes.- III. Nanotubular Structures.- Field Emission Microscopy of Carbon Nanotubes.- Carbon Nanotube Field Emission Display.- Thin Film Carbon Nanotube Cathodes for Field Emission Flat Panel Display and Light Source Application.- Pyrolytic Carbon Nanofibers and Nanotubes: Structure and Applications.- From Conducting Polymers to Carbon Nanotubes: New Horizons in Plastic Microelectronics and Carbon Nanoelectronics.- Self-assembly of Inorganic Nanotubes Synthesized by the Chemical Transport Reaction.- Single-Wall Carbon Nanotubes and Single-Wall Carbon Nanohorns.- FT-ICR Reaction Experiments and Molecular Dynamics Simulations of Precursor Clusters for SWNTs.- IV. Medical Applications.- Application and Commercial Prospects of Fullerenes in Medicine and Biology.- Nanomedicine: Fullerene and Carbon Nanotube Biology.- Free Radical Scavenging and Photodynamic Functions of Micelle-like Hydrophile Hexa(sulfonyl)fullerene (FC4S).- Sonodynamic Effect of Polyethylene glycol-conjugated Fullerene on Tumor.- V. Hard Carbons from C60.- Mechanical Properties of Polymerized, Amorphous, and Nanocrystalline Carbon Phases Prepared from Fullerite C60 under Pressure.- Ultrananocrystalline Diamond Films from Fullerene

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