



# **Applied Physics of Carbon Nanotubes: Fundamentals of Theory, Optics and Transport Devices (NanoScience and Technology)**

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Back in 1991 Sumio Iijima first saw images of multi-walled carbon nanotubes in the TEM. Two years later, he and Donald Bethune synthesized the first single-walled nanotubes (SWNTs). Since then, we have seen tremendous advances in both the methods for nanotube synthesis and in the understanding of their properties. Currently, centimeter-long SWNTs can be readily grown at selected positions on a solid substrate, and large quantities of nanotubes can be produced for industrial applications. Significant progress has been made in producing nearly homogeneous samples of nanotubes of only a few diameters/chiralities. It is expected that the development of techniques for the synthesis of a single type of nanotube is not far away. At the same time, physical and chemical procedures for the separation of nanotube mixtures are being demonstrated. In addition to pure nanotubes, derivatized nanotubes with attached chemical or biochemical groups are being prepared. Nanotubes acting as containers for atoms, molecules (such as the "peapods") and chemical reactions are attracting significant attention. In parallel with the synthetic effort there has been a race to decipher the properties of these materials. It is now clear that nanotubes possess unique mechanical, electrical, thermal and optical properties. Scientists and engineers around the world are exploring a wide range of technological applications that make use of these properties.

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