



Electronic Properties of Carbon Nanotubes

By Leroy Sidney

Scitus Academics, 2017. Hardcover. Condition: New. Carbon nanotubes (CNTs) are tubular cylinders of carbon atoms that have extraordinary mechanical, electrical, thermal, optical and chemical properties. CNTs typically have diameters ranging from 1 nanometer (nm) up to 50 nm a nanometer is one thousand millionth of a meter. Typical CNT lengths are several microns several thousand nanometers long; by contrast, Nanocomp's produced fibers are measured in millimetersthousands of times longer than all other commercially produced CNTs. They take the form of cylindrical carbon molecules and have novel properties that make them potentially useful in a wide variety of applications in nanotechnology, electronics, optics and other fields of materials science. They exhibit extraordinary strength and unique electrical properties, and are efficient conductors of heat. In the powdery format offered by all CNT producers (but for NTI), applications are limited to the properties possible by this form factor e.g. additive active ingredients in semiconductors, liquid crystal displays (LCDs), sensors, and other uses in which these powders add some level of functional performance. Due to its fiber length and its form factors, NTI delivers strength and conductivity unlike any other commercial CNT producer, and so can address a much broader array of applications for...



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