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## **Carbon nanotube - Wikipedia**

Carbon nanotube, also called buckytube, nanoscale hollow tubes composed of carbon atoms. The cylindrical carbon molecules feature high aspect ratios (length-to-diameter values) typically above  $10^3$ , with diameters from about 1 nanometer up to tens of nanometers and lengths up to millimeters. This unique one-dimensional structure and concomitant properties endow carbon nanotubes with special ...

## **carbon nanotube | Properties & Uses | Britannica**

S. Subramoney, in Encyclopedia of Materials: Science and Technology, 2006. Introduction. In the article Carbon Nanotubes, the synthesis, structure, properties, and potential applications of multiwalled and single-walled variants of carbon were discussed extensively. In continuation of the previous work, this article addresses the key issues on hand in carbon nanotube technology.

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### **Carbon Nanotube and Related Field Emitters: Fundamentals ...**

Carbon nanotube field-effect transistors or CNFETs are more energy-efficient than silicon field-effect transistors and could be used to build new types of three-dimensional microprocessors. But until now, they've existed mostly in an "artisanal" space, crafted in small quantities in academic laboratories.

### **Carbon nanotube transistors make the leap from lab to ...**

The new potential in designing field emitters and devices on



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their basis has appeared after discovery of carbon nanotubes. Field emission of carbon nanotubes was for the first time reported by Fishbine (Phillips Lab.) (Fishbine et al., 1994), Gulyaev (Institute of Radio-engineering and Electronics, Russia) (Gulyaev et al., 1994), and Rinzler (Rice University) (Rinzler et al., 1994) in 1994.

## **Carbon Nanotube Field Emitters | IntechOpen**

Summary This chapter contains sections titled: Background Growth of Carbon Nanotubes from Patterned Catalysts Single Nanotube Growth - Requirements and Uniformity Nanotube Growth without Surface Ca...

## **Preparation of Patterned CNT Emitters - Carbon Nanotube**

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A carbon nanotube field-effect transistor (CNTFET) refers to a field-effect transistor that utilizes a single carbon nanotube or an

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array of carbon nanotubes as the channel material instead of bulk silicon in the traditional MOSFET structure. First demonstrated in 1998, there have been major developments in CNTFETs since.

## **Carbon nanotube field-effect transistor - Wikipedia**

Divided into four sections, the first part discusses the preparation and characterization of carbon nanotubes, while part two is devoted to the field emission properties of carbon nanotubes, including the electron emission mechanism, characteristics of CNT electron sources, and dynamic behavior of CNTs during operation.

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