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S. Subramoney, in
Encyclopedia of
Materials: Science and
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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

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Field emission of carbon nanotubes was for the first time reported by Fishbine

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Emitters (Phillips Lab.) (Fishbine

et al., 1994), Gulyaev

(Institute of Radio-
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(Gulyaev et al., 1994),

and Rinzler (Rice

University) (Rinzler et

al., 1994) in 1994.

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carbon nanotube or an 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.

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field-effect
transistor -
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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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