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Field Emission from Multi-walled Carbon Nanotubes

By Husain, Samina

Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | An insight into growth methods and field emission properties of Multi-walled Carbon Nanotubes | A carbon nanotube (CNT) can be considered as the ultimate fiber, reflecting highly organized, near ideal sp² bonded carbon structure. CNTs are flexible but very hard to stretch and have extremely low turn-on fields and high current densities ranking them amongst the best electron field emitters for future field emission displays. These exceptional properties of CNTs have been investigated for devices such as field-emission displays, scanning probe microscopy tips and micro-electronic devices etc. The thesis focuses on synthesis of carbon nanotubes on nanocrystalline films by Low-Pressure CVD and Electron Cyclotron Resonance CVD and their future application as field emitters. Different Ni₉₅Ti₅, Fe₇₀Pd₃₀ and Fe₇₀Pt₃₀ nanocrystalline films as catalyst material were prepared by vapour condensation technique. The alloys of Ni₉₅Ti₅, Fe₇₀Pt₃₀ and Fe₇₀Pd₃₀ were prepared using arc-discharge method. The morphologies of the as-grown CNT film were obtained using SEM, TEM and HRTEM, Raman Spectrometer and FESEM. | Format: Paperback | Language/Sprache: english | 256 pp.



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