

1. Record Nr.	UNINA9910787837503321
Autore	Srivastava Ashok (College teacher)
Titolo	Carbon-based electronics : transistors and interconnects at the nanoscale // Ashok Srivastava, Jose Mauricio Marulanda, Yao Xu, Ashwani K. Sharma
Pubbl/distr/stampa	Boca Raton, Florida : , : CRC Press, , [2015] ©2015
ISBN	0-429-06920-0 981-4613-11-8
Descrizione fisica	1 online resource (153 p.)
Disciplina	620.5
Soggetti	Carbon nanotubes Electronic apparatus and appliances
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Cover; Contents; Preface; Chapter 1: Introduction to Carbon Nanotubes; Chapter 2: Current Transport in Carbon Nanotubes; Chapter 3: Current Transport in CNT Field-Effect Transistors; Chapter 4: Single-Walled Carbon Nanotube Interconnection; Chapter 5: Multi-Walled and Bundle of Single-Walled Carbon Nanotube Interconnection; Chapter 6: Carbon Nanotube Wire Inductors; Chapter 7: Energy Recovery Techniques for CNT-FET Circuits; Chapter 8: Verilog-AMS Codes for Non-Ballistic CNT-FET Modeling
Sommario/riassunto	<P>Photonic structures in the animal kingdom: valuable inspirations for bio-mimetic applications. Moth eye-type anti-reflecting nanostructures by an electron cyclotron resonance plasma. Plasma-processed biomimetic nano/microstructures. Wetting properties of natural and plasma processed biomimetic surfaces. Biomimetic superhydrophobic surface by plasma processing. Biomimetic interfaces of plasma modified titanium alloy.</P>