

Carbon Nanotube And Graphene Nanoribbon Interconnects By Debaprasad Das;Hafizur Rahaman

By Debaprasad Das;Hafizur Rahaman

Genre/Form: Electronic books: Additional Physical Format: Print version: Das, Debaprasad Carbon Nanotube and Graphene Nanoribbon Interconnects Hoboken : Taylor and

Graphene nanoribbons possess semiconductive properties and may be a technological alternative to Graphene oxide paper; Carbon nanotube; Mitsutaka Fujita

Analysis of Stability in Carbon Nanotube and Graphene Nanoribbon Sandip Bhattacharya, Debaprasad Das,Hafizur Subhajit Das, Debaprasad Das,Hafizur Rahaman

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Carbon Nanotube and Graphene Nanoribbon Interconnects - Debaprasad Das, Hafizur Rahaman (CRC, 2015).pdf

Carbon nanotubes (CNTs) are allotropes of carbon with a cylindrical nanostructure. Graphene nanoribbon. The chiral vector is bent,

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Book Publications 1. Debaprasad Das & Hafizur Rahaman Title: Carbon Nanotube and Graphene Nanoribbon Interconnects ISBN: 9781482239485 Publisher: CRC Press. 2 Author

published 2011) and Carbon Nanotube and Graphene Nanoribbon Carbon Nanotube and Graphene Nanoribbon Interconnects by Debaprasad Das, Hafizur Rahaman 0.0 of

Disclosed is a method for making graphene nanoribbons (GNRs) by controlled unzipping of structures such as carbon nanotubes (CNTs) by etching (e.g., argon plasma

Books. Debaprasad Das and Hafizur Rahaman, Carbon Nanotube and Graphene Nanoribbon Interconnects, CRC Press (Taylor and Francies Group), USA.

The morphologies of graphene nanoribbons (GNRs) encapsulated in single-walled carbon nanotubes (SWNTs) are investigated using molecular-dynamics (MD) simulation. The

Carbon nanotubes and graphene provide high carrier mobility for carbon nanotube (CNT) and graphene nanoribbon
Debaprasad Das, Hafizur Rahaman

Abstract. Carbon nanotubes (CNTs) and graphene nanoribbons (GNRs) field effect transistor (FET) can be the basis for a quasi one dimensional (Q1D) transistor

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1. Nature. 2009 Apr 16;458(7240):877-80. doi: 10.1038/nature07919. Narrow graphene nanoribbons from carbon nanotubes. Jiao L, Zhang L, Wang X, Diankov G, Dai H.

Graphene, Carbon Nanotubes, Carbon Nanotube and Graphene Nanoribbon Interconnects by Debaprasad Das, Hafizur Rahaman 2014

arXiv:1211.3067v1 [cond-mat.mes-hall] 13 Nov 2012 RKKY interaction in carbon nanotubes and graphene nanoribbons Jelena Klinovaja and Daniel Loss

Analysis of Stability in Carbon Nanotube and Graphene Nanoribbon Das and Debaprasad Multiwall Carbon Nanotube Interconnects and Its

Graphene nanoribbon system in Figure 15.1 (a) generally has the structure developed toward one-dimensional direction, whereas nanographene system in Figure 15.1 (b

Jun 14, 2015 Researchers on three continents discover that functionalized carbon nanotubes, nanotubes into valuable graphene nanoribbons may Kabbani/Rice

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Single wall carbon nanotubes and graphene nanoribbons are interesting because they lie between the simple molecular systems 4. Coherent phonons in carbon nanotubes.

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Just like carbon nanotubes (CNs), graphene nanoribbons are also 1D systems. They can be realized either by cutting mechanically exfoliated graphenes [7], or by

Graphene nanoribbons (GNR) were generated in ethanol solution by unzipping pyrrolidine-functionalized carbon nanotubes under mild conditions. Evaporation of the

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unzipping of carbon nanotubes to form graphene nanoribbons wall of a carbon nanotube to form a nanoribbon. 1038/nature07872 METHODS

Beryllium substitutional doping within graphene, graphene nanoribbons, and carbon nanotubes are graphene nanoribbons, and carbon nanotubes are investigated