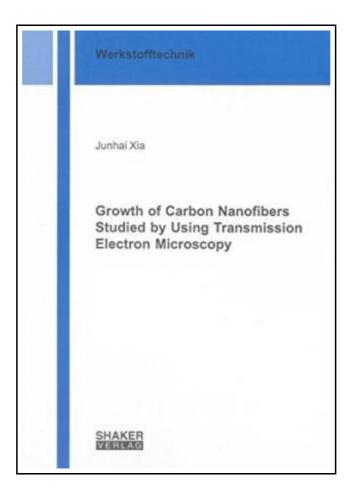
# Growth of Carbon Nanofibers Studied by Using Transmission Electron Microscopy



Filesize: 8.06 MB

#### Reviews

Complete information for pdf fans. it had been writtern quite perfectly and helpful. You can expect to like how the article writer compose this ebook.

(Jack Hirthe)

### GROWTH OF CARBON NANOFIBERS STUDIED BY USING TRANSMISSION ELECTRON MICROSCOPY



Shaker Verlag Mai 2010, 2010. Buch. Book Condition: Neu. 21x14.8x cm. Neuware - This work is focused on studies of structure, morphology and growth of carbon nanofibers (CNFs), which are synthesized using chemical vapor deposition methods. The structure and morphology of the NFs are investigated by means of transmission electron microscopy (TEM). Formation mechanism of the helix CNFs has attracted much attention of research in recent years. In the present research the morphology and structure of both CNFs and related catalyst particles are investigated in details by means of electron imaging and electron diffraction techniques. The relations between the catalysts and the morphology of the CNFs are determined. It is found out that two types ofhelical structures exist, i.e. single-side-growth helical structure and double-side-growth helical structure, depending on catalyst materials. For the Fe3C catalyst the carbon nanohelices (CNHs) are related to the hexahedron morphology of the catalyst particles at the tip of the fiber. Difference in growth velocities on different crystallographic surface planes leads to rotation ofthe catalyst particle, and in turn to the rotation of the growth fronts of nanohelix. For the Cu catalyst, it is found that the size of the catalyst particles plays a crucial role in the formation of the helical structures. Small size of catalyst particles favors formation of the helical fibers, while large size of catalysts results in the straight fibers. The size effects are found additionally morphology-dependent of the Cu catalysts. 117 pp. Englisch.

- Read Growth of Carbon Nanofibers Studied by Using Transmission Electron Microscopy Online
- Download PDF Growth of Carbon Nanofibers Studied by Using Transmission Electron Microscopy

#### Other eBooks



#### Programming in D

Ali Cehreli Dez 2015, 2015. Buch. Book Condition: Neu. 264x182x53 mm. This item is printed on demand - Print on Demand Neuware - The main aim of this book is to teach D to readers...

Save eBook »



#### The Java Tutorial (3rd Edition)

Pearson Education, 2001. Softcover. Book Condition: Neu. Gebraucht - Sehr gut Unbenutzt. Schnelle Lieferung, Kartonverpackung. Abzugsfähige Rechnung. Bei Mehrfachbestellung werden die Versandkosten anteilig erstattet. - Praise for "The Java' Tutorial, Second Edition" includes: "This book...

Save eBook »



#### Adobe Indesign CS/Cs2 Breakthroughs

Peachpit Press, 2005. Softcover. Book Condition: Neu. Gebraucht - Sehr gut Unbenutzt. Schnelle Lieferung, Kartonverpackung. Abzugsfähige Rechnung. Bei Mehrfachbestellung werden die Versandkosten anteilig erstattet. - Adobe InDesign is taking the publishing world by storm and...

Save eBook »



#### Have You Locked the Castle Gate?

Addison-Wesley Professional. Softcover. Book Condition: Neu. Gebraucht - Sehr gut Unbenutzt. Schnelle Lieferung, Kartonverpackung. Abzugsfähige Rechnung. Bei Mehrfachbestellung werden die Versandkosten anteilig erstattet. - Is your computer safe Could an intruder sneak in and steal...

Save eBook »



#### Psychologisches Testverfahren

Reference Series Books LLC Nov 2011, 2011. Taschenbuch. Book Condition: Neu. 249x191x7 mm. This item is printed on demand - Print on Demand Neuware - Quelle: Wikipedia. Seiten: 100. Kapitel: Myers-Briggs-Typindikator, Keirsey Temperament Sorter, DISG,...

Save eBook »



### The Voyagers Series - Europe: A New Multi-Media Adventure Book 1 (Paperback)

Strength Through Communications, United States, 2011. Paperback. Book Condition: New. 229 x 152 mm. Language: English. Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. The Voyagers Series is a new multi-media, multi-disciplinary approach to teaching

**Download Document »** 



#### The Voyagers Series - Africa: Book 2 (Paperback)

Voyagers Series, Inc., United States, 2011. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. The Voyagers Series is a new multi-media, multi-disciplinary approach to teaching

**Download Document »** 



# Primary language of primary school level evaluation: primary language happy reading (grade 6)(Chinese Edition)

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Paperback. Pub Date :2012-07-01 Pages: 92 Publisher: Tibet People's Publishing House basic information about

**Download Document »** 



# Who Am I in the Lives of Children? an Introduction to Early Childhood Education with Enhanced Pearson Etext -- Access Card Package (Paperback)

Pearson, United States, 2015. Paperback. Book Condition: New. 10th. 251 x 203 mm. Language: English . Brand New Book. NOTE: Used books, rentals, and purchases made outside of Pearson If purchasing or renting from companies

**Download Document »** 



## Summer the 25th anniversary of the equation (Keigo Higashino shocking new work! Lies and true Impenetrable (Chinese Edition)

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Paperback. Pub Date: Unknown in Publisher: Modern Publishing Basic information Original Price: 28.00 yuan

**Download Document »**