

<<碳纳米管及其相关结构>>

图书基本信息

书名：<<碳纳米管及其相关结构>>

13位ISBN编号：9787506271806

10位ISBN编号：750627180X

出版时间：2004-11

出版时间：北京世图

作者：P.J.F.HARRIS

版权说明：本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问：<http://www.tushu007.com>

## <<碳纳米管及其相关结构>>

### 内容概要

This book covers all the most important areas of nanotube research, as well as discussing related structures such as carbon nanoparticles and ' inorganic fullerenes '. This is the first single-author book on carbon nanotubes. It will be of interest to chemists, physicists, material scientists and engineers working on carbon material and fullerenes from both academic and industrial backgrounds.

## <<碳纳米管及其相关结构>>

### 作者简介

PETER HARRIS was brought up in Gloucestershire and read chemistry at Birmingham University. He went on to study for a doctorate at Oxford University, where his project involved transmission electron microscopy of catalytic materials. Dince that time his research has focused on the applicaion of various forms of microscopy to problems in solid-state chemistry and materical science.

<<碳纳米管及其相关结构>>

书籍目录

Acknowledgements1 Introdcution 1.1 The discovery of fullerece-related carbon nanotubes 1.2 Chanracteristics of multiwalled nanotubes 1.3 Single-walled nanotubes 1.4 Pre-1991 evidence for carbon nanotubes 1.5 Nantube research 1.6 Organisation of the book References2 Synthesis: Preparation methods, growth mechanisms and processing techniques 2.1 Producion of multiwalled nanotubes: non-catalytic methods 2.2 Experiments on the heat treatment of fullerene soot 2.3 Catalytically produced multiwalled nanotubes 2.4 Nanotubes on TEM support grids: a work fo warning 2.5 Syngle-walled nanotubes 2.6 Theories of nanotube growth 2.7 purification of multiwalled tubes 2.8 Purificaion of single-walled tubes 2.9 Alignment of nanotube sqmples 2.10 Legth control of carbon nanotubes 2.11 Discussion References3 Structure 3.1 Classificaion of tubular biological structures 3.2 Bonding in carbon material 3.3 The structure of carbon nanotubes: theoretical discussion 3.4 The physical stability of carbon nanotubes 3.5 Experimental studies of nanotube structure: multiwalled nanotubes.....4 The physics of nanotubes5 Nanocapsules and nanotest-tubes6 The ultimate carbon fibre? the mechanical properties of carbon nanotubes7 Curved crystals, inorganic fullerenes and nanorods8 Carbon onions and spheroidal carbon9 Future directionsName indexSubject index

<<碳纳米管及其相关结构>>

版权说明

本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问:<http://www.tushu007.com>