

<<纳米科技前沿>>

图书基本信息

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内容概要

本书主要讲述了当前世界范围内在纳米尺度的现代工程领域中一些激动人心的进展。许多著名科学家和工程师介绍了他们特定科研领域的研究进展，讲述了他们的前沿研究，并提出了他们关于未来的设想。

本书所涵盖的主题有：纳米电子器件、有机导体以及仿生电子学材料的制造与测量；如何将这些结构组装成适当的构型，包括利用生化过程进行组装；有机及无机线、碳纳米管、磁性材料等新材料的研究进展；最后，介绍了这些结构的分析报告及其特征。

通过该书，读者可以与作者一起分享他们在现代工程纳米科技前沿工作的兴奋和热情。

对于初入门或正想进入这些研究领域的青年学者来说，本书不仅可以丰富他们的专业知识、扩展他们的视野，更可以为他们选择适合于自己兴趣的研究方向提供帮助。

而对于大学生和那些对这些领域的知识和发展方向有兴趣的一般读者来说，阅读这些书，既可以增进他们的科学知识，也可以助其了解这些领域的发展方向。

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版权页：插图：Nanotechnology and engineering at the nanometer scale has considerably advanced over the past few years, but despite many successes, the field is still in its infancy. A myriad of techniques to fabricate fascinating functional nanometer-scale complexes has been developed, including several DNA-based nanostructures. However, many of their properties, including electrical, magnetic, catalytic, and optical properties, have not yet been studied systematically or in great detail. In addition, although many of these complexes can generally be fabricated in large numbers, generic and reliable ways of interconnecting them into larger, multi-functional networks.

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