

<<炭材料科学与工程>>

图书基本信息

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内容概要

近年来由于富勒烯和碳纳米管的发现，炭材料研究受到了全球材料科学界、物理界和化学界的广泛关注。

该书系统地介绍了炭材料的科学理论知识和工程应用实例。

第一部分为绪论，介绍了写作本书的目的和炭材料的分类与发展史，以及炭的多样性。

第二部分为炭材料的基础科学知识，主要介绍了炭材料的结构、性能和制备工艺，特别是炭化和石墨化的原理及其微观结构控制技术，多孔炭的孔径控制和炭材料掺杂其他原子的技术，炭材料的各类表征方法。

第三部分主要为炭素材料的工程与应用问题，特别是新型炭材料的发展及其在能源、环保、原子能、国防方面的应用实例，涉及石墨电极，高密度各向同性石墨，高取向热解石墨，玻璃炭，纤维状炭，多孔炭，石墨层间化合物等。

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