

<<固态物理学 (第1卷)>>

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内容概要

本书是以作者1971年的教材为蓝本，增加了许多最新研究成果，内容几乎扩展为原来的两倍。全书共十二章，为了阅读方便，现分为上、下两卷，前六章为上册，后六章为下册。

读者需有一定的物理和数学背景。

固态物理学将物理领域的多个概念有机结合，用最基本的方法讲述固体材料是如何工作的。

固态物理学也定义为从物理规律研究固体的物理性质。

从某种意义上说，本学科与物理学别的分支不一样，更像是化学，研究材料的大量普通性质。

本书对固态物理学的讲述也是从最基本的定义开始，层层递进，节节深入，符合读者的逻辑思维方式。

每章末都附有习题，有助于读者更好的理解本章所学内容。

目次；晶体键联和结构；晶格振动和热性质；周期势场中的电子；电子和晶格振动的相互作用；金属，铝和费米面；半导体；磁性，磁子和磁共振；超导；电介质和铁电体；固体的光学性质；固态中的亏量；固体凝聚态物理学中的最新议题；附录。

读者对象：物理学领域的研究生专业课教科书和研究人员参考书。

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作者简介

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