

<<磁性量子理论>>

图书基本信息

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内容概要

本书从“线性响应”出发研究磁学现象。

主要内容是研究磁性材料在磁场作用下是如何响应的（磁场可以是均匀的或不均匀的，静止的或变化的）。

本书的前两版主要研究了磁性响应，本版中还增加了磁性材料的磁阻抗，同时在每章后还增加了一些习题以帮助读者加深对内容的理解。

本书关于磁学基本原理的论述和前两版相比变化不大。

随着研究的深入和新应用的发展，新的磁学现象不断涌现，如本书第二版出版以来，发现了巨磁阻效应，自旋电子学的研究队伍也在迅速扩大。

本书不仅介绍了这些新现象，而且详细讨论了新材料（如高温超导材料）的一个重要性质——磁性。我们通过测量磁化率，核磁共振，中子散射等手段来研究材料的磁性，这为新材料的研究提供了便利。

根据最近的研究成果，本书对一些资料作了重要的修正，也新加入了一些资料（新加入了有关磁性多层薄膜的一章）。

本书紧跟学科发展，是一本介绍新材料科学关键性能——磁性的经典著作。

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