

Introduction to Solid State Physics



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Since the publication of the first edition over 50 years ago, *Introduction to Solid State Physics* has been the standard solid state physics text for physics students. The author's goal from the beginning has been to write a book that is accessible to undergraduates and consistently teachable. The emphasis in the book has always been on physics rather than formal mathematics. With each new edition, the author has attempted to add important new developments in the field without sacrificing the book's accessibility and teachability.

* A very important chapter on nanophysics has been written by an active worker in the field. This field is the liveliest addition to solid state science during the past ten years

* The text uses the simplifications made possible by the wide availability of computer technology. Searches using keywords on a search engine (such as Google) easily generate many fresh and useful references

作者介绍:

Charles Kittel studied at the University of Cambridge, England, where he obtained his Bachelor of Arts (BA) in 1938. He published his thesis in 1941 at the University of Wisconsin–Madison and joined the Massachusetts Institute of Technology (MIT) between 1945 and 1947. During World War II, he joined the Submarine Operations Research Group (SORG). From 1947 to 1951, he worked for Bell Laboratories, New Jersey, USA, especially on ferromagnetism.

From 1951 to 1978, he worked at the University of California, Berkeley, where he taught and did research in the field of theoretical solid-state physics, a part of condensed-matter physics. He was awarded three times with Guggenheim Fellowships in 1945, 1956 and 1963[2].

Kittel is known to physics students worldwide on account of his classic text *Introduction to Solid State Physics*, now in its 8th edition.

目录:

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标签

固体物理

物理

凝聚态

教材

Physics

研究生专业课

原版书

Solid

评论

因为中文版翻译的太挫错怪kittel大师了。。。正如老板说的，当一本教材已经经典到出到第八版的时候，你还说看不懂就是你自己的问题了。好书不需要夸赞，自己去读就明白

有些地方过于点到为止不求甚解了

大学推荐凝聚态物理教材

I don't know what kind of conspiracy is going on of the publisher to make this stuff a "STANDARD" textbook worldwide. Totally TRASH. Stay away

这书也能出到第八版。。最大的长处就是图很多。。

挺好的教材

推证太简略 课后习题难的一米！！！

该死的固体物理

非常乱套，公式都不知道怎么来，忽然就出来了。不过还是挺全的，有基础的人可以做为参考书

分類學 - 尋址技巧

固體物理對我來說真是一座比量子場論2還高的大山..

教材，认真看了前七章，然鹅并不觉得像别人说的那么好

almost trash

不适合初学者

太垃圾了

天书。。

相见恨晚，晚只因听信大众的口味。 Underrated.

通俗易懂有木有！！！但是介于老娘的破逼eigo，老娘决定先看黃昆的。。。

okay for reference, terrible for learning

至少模型挺直观

书评

此书章节组织无主线可言，不能成系统的阐述。章节经常东戳一句，西戳一句，让人看了不知所云，翻译极奇烂，老师都不断吐槽他的翻译。最后我都转到固体物理基础，吴代鸣的书。初学者不要入坑了。

英文版写的比较通俗易懂，但推导过程比较简略，而且不用国际单位制，很不友好，计算时不容易有感觉。中文版的翻译十分差劲，连句子都写不通顺，，逻辑也没什么章法，读着很费力，不利于学习。

总体还算介绍性质的，许多问题没有讲清，要搞清楚的话需要学固体理论。
格里菲斯书...

光子，电子，声子（振动，热），磁子？

激子（电子+空穴），等离子（阳离子+阴离子）光电效应（有机发光二极管）

压电效应（纳米摩擦发电机）超导（零电阻，完全抗磁性）

自由原子的磁矩的三个主要来源：电子固有自旋；电子绕核旋转的轨道角动量；外加磁场感生？的轨道矩改变...

避坑提醒！！！看到评分后很意外，不明白这个8.0分是怎么出来的。因为作为一本物理入门书籍，整本书能让人读到翻白眼。作者对硬翻一定有独到的见解，完美诠释什么是为了书面语而书面语，可能这样会显得比较专业，但是这样翻译真的让人很头疼。随意一翻俯首即是：原文：“The f...