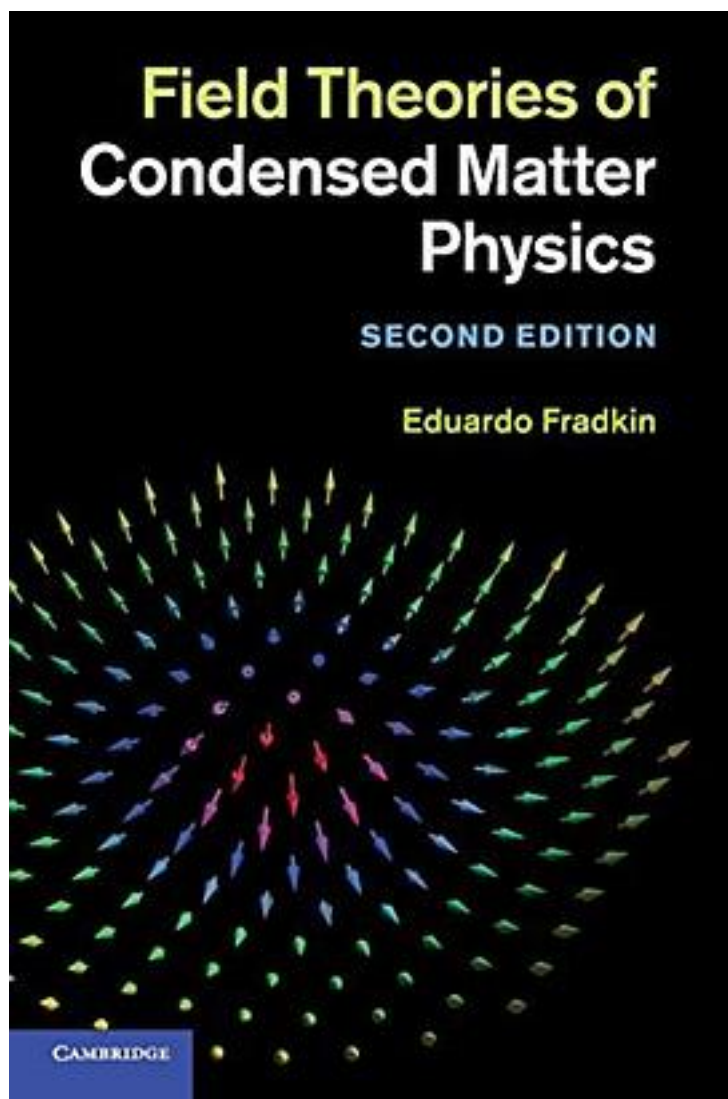


Field Theories of Condensed Matter Physics



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Presenting the physics of the most challenging problems in condensed matter using the conceptual framework of quantum field theory, this book is of great interest to physicists in condensed matter and high energy and string theorists, as well as mathematicians. Revised and updated, this second edition features new chapters on the renormalization group, the Luttinger liquid, gauge theory, topological fluids, topological insulators and quantum entanglement. The book begins with the basic concepts and tools, developing them gradually to bring readers to the issues currently faced at the frontiers of research, such as topological phases of matter, quantum and classical critical phenomena, quantum Hall effects and superconductors. Other topics covered include one-dimensional strongly correlated systems, quantum ordered and disordered phases, topological structures in condensed matter and in field theory and fractional statistics.

作者介绍:

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标签

凝聚态物理

凝聚态理论

物理

量子场论

QFT

量子多体

凝聚态

Physics

评论

当然我没有读完，我只是看了我感兴趣的部分。其结果是，我觉得带着这书和Altland的书可以走遍天下了。与第一版相比，基本就是一本新书，一本以初学者为对象的讲述高端前沿凝聚态理论的书，可读性远远超过文小刚老师的书（这是事实，不是贬低文老师）。

我问孩子，如果感到孤独被冷落了或是感到无趣时怎么办，孩子说画画，而我呢，可能是啃这类厚本有趣的书。……离开了，没读完

One of the best. Research oriented book.

同类书最佳

Amazon 书评：「for most time I have to read original papers in the reference to understand what is said here. But if so, why reading this book?」

「大多数时候，我不得不去读reference里的原始paper，来理解这本书在讲什么。那为什么还要读这本书？」

>>说这本书好读的我求求各位，讲一下怎么好读，需要什么理论储备。Fradkin的lec、paper和书，我没一个能看得懂。相比之下，Altland那本复杂啰嗦的书也看了很久没什么进展。但小刚的书就能看懂，还感觉很有趣。对于QFT似乎也是这样，Peskin啰哩啰嗦，相反基本短小的书倒是更容易接受一点

Worth of reading

Li,Xiao 师兄推荐

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书评

It is hard to comment on this book. This book indeed provides a comprehensive introduction to various topics in strongly correlated electron systems and I do not know any similar books yet. (For example, The book by Altland & Simons is too introductory....

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