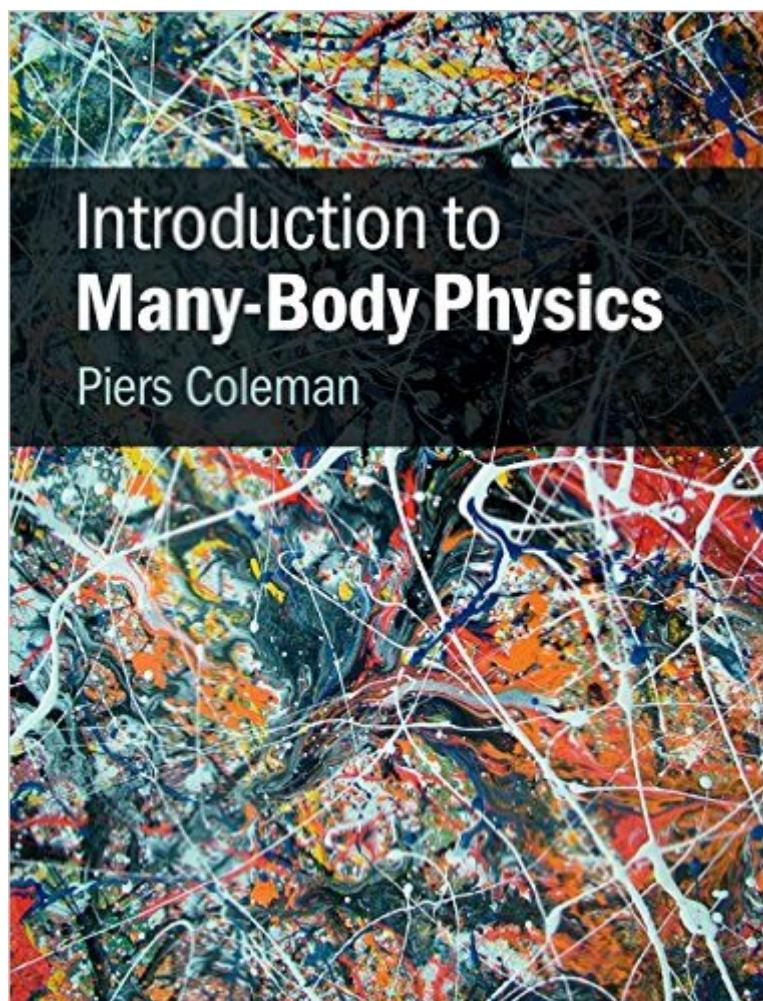


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Introduction To Many-Body Physics



Synopsis

A modern, graduate-level introduction to many-body physics in condensed matter, this textbook explains the tools and concepts needed for a research-level understanding of the correlated behavior of quantum fluids. Starting with an operator-based introduction to the quantum field theory of many-body physics, this textbook presents the Feynman diagram approach, Green's functions and finite-temperature many body physics before developing the path integral approach to interacting systems. Special chapters are devoted to the concepts of Fermi liquid theory, broken symmetry, conduction in disordered systems, superconductivity and the physics of local-moment metals. A strong emphasis on concepts and numerous exercises make this an invaluable course book for graduate students in condensed matter physics. It will also interest students in nuclear, atomic and particle physics.

Book Information

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Average Customer Review: 5.0 out of 5 starsÂ See all reviewsÂ (2 customer reviews)

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Customer Reviews

I have not received the printed book yet, but I have read the lecture notes that this book was largely based on. It was very nicely written, and I have learned a lot of condensed matter field theoretical techniques from it. Another reason I would love this book is that it is not written in a rush -- it has evolved for a while. First, this means that it has very few typo/misprints, which is a huge plus for newcomers to this field. Second, this means it can include a lot of interesting new materials. I saw in the content that compared with the lecture notes preceding the book, the author has added a new chapter on topological Kondo insulators, which I can't wait to read.

more than expected

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