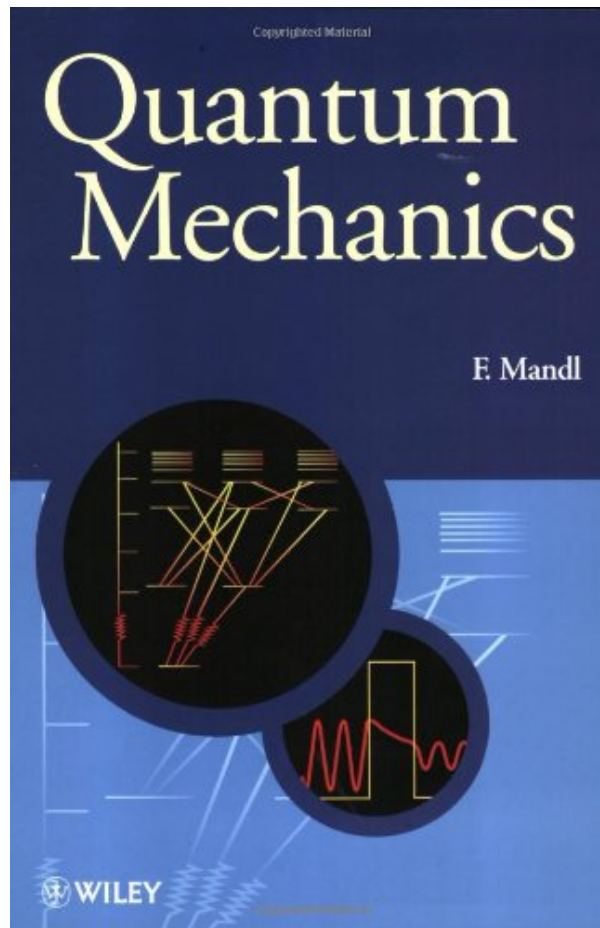


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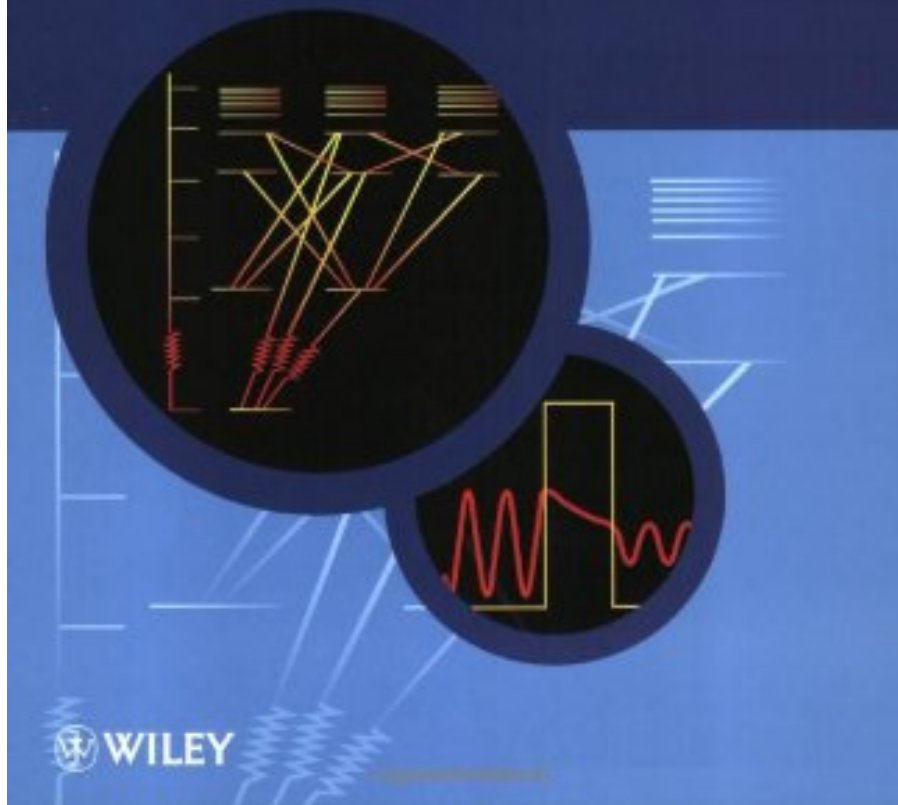
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E. Mandl



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An undergraduate text by a great teacher

By henrique fleming

The book I am reviewing is F. Mandl's "Quantum Mechanics", from the celebrated Manchester Physics Series. These are books especially planned for undergraduates, so that they are not too long and have hints or solutions to almost all the (numerous) exercises. The author is a famous writer in science. He wrote, for instance, the first readable book on quantum electrodynamics (the "Mandl", as it was called), another volume of the Manchester Series, "Statistical Physics", one of the present favorite introductions to the same subject (with G. Shaw) and a wonderful Yellow Report from CERN on Symmetries, now unfortunately very hard to find. Mandl has the gift of anticipating doubts and of providing clear and direct answers. In a book of quantum mechanics there are traditional points where disasters frequently occur. One is the description of the continuous spectra, with the "box normalization". Mandl excels here. Other is the perturbation theory of a degenerate level. Mandl's is the best treatment I've seen. As is usual in texts of this level, there is no Dirac equation. On the other hand, a chapter is devoted to Dirac's formalism, in terms of bras and kets. At the modern side, a very clear explanation of Bell's inequality, and problems connected to it, is given. To sum up, the whole text is sound and very clear. The exercises are good, and the hints most helpful. Excellent text.

6 of 7 people found the following review helpful.

Mandl's quantum text

By Greg Severn

This text is better than Griffith's text. It is succinct, it says more in fewer pages, and the economy of expression does not compromise in necessary depth for the introductory student. The student leaves the shallows more quickly, and gets to Bell's theorem more quickly too, on the other side. Lucid!

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