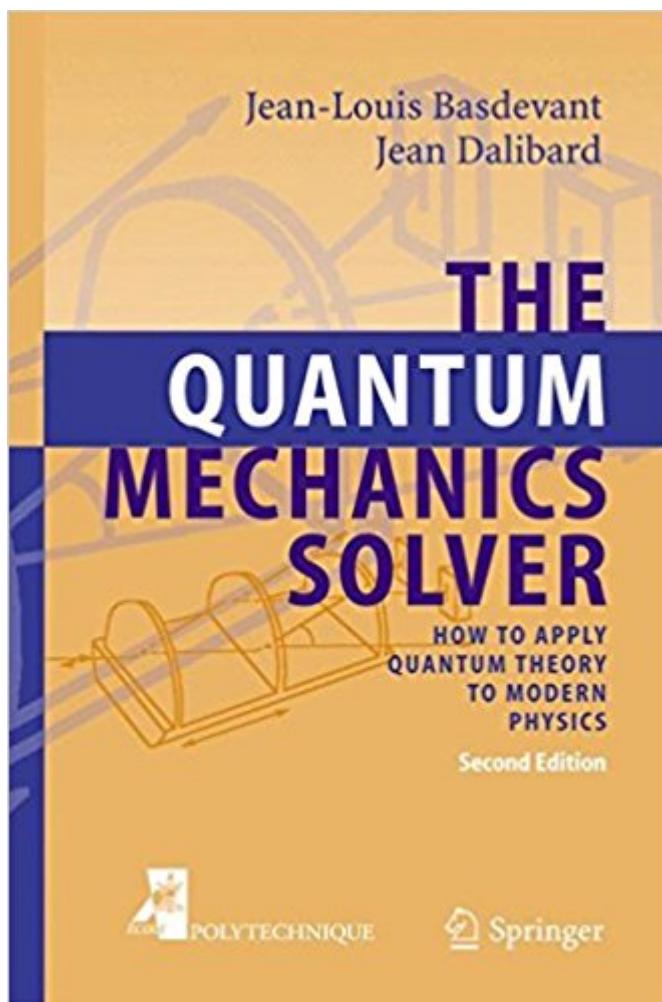


The book was found

The Quantum Mechanics Solver: How To Apply Quantum Theory To Modern Physics



Synopsis

Motivates students by challenging them with real-life applications of the sometimes esoteric aspects of quantum mechanics that they are learning. Offers completely original exercices developed at the Ecole Polytechnique in France, which is known for its innovative and original teaching methods. Problems from modern physics to help the student apply just-learnt theory to fields such as molecular physics, condensed matter physics or laser physics.

Book Information

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Customer Reviews

From the reviews of the second edition: "This problem based textbook is a concise and particularly useful reference of quantum mechanics as used in a large range of modern applications in physics. At the end of each section worked solutions, references and general comments are given. This book of problems would be very useful for any physics departmental, or indeed individual research group, library. Highly recommended." (Lloyd C L Hollenberg, Australian Physics, Vol. 32 (6), 2007)

The Quantum Mechanics Solver grew from topics which are part of the final examination in quantum theory at the Ecole Polytechnique at Palaiseau near Paris, France. The aim of the text is to guide the student towards applying quantum mechanics to research problems in fields such as atomic and molecular physics, condensed matter physics, and laser physics. Advanced undergraduates and graduate students will find a rich and challenging source for improving their skills in this field.

Everything ok

This book has quite a comprehensive collection of solved problems in quantum mechanics. It is a suitable supplement to the usual texts on quantum mechanics such as those by Shankar, Griffiths, Sakurai, etc. Another similar useful book on solved problems is: Problems and Solutions on Quantum Mechanics by Yung-Kuo Lim.

If you are studying quantum mechanics using popular textbooks such as Griffiths', Shankar's, Liboff, Sakurai, Ballentine, ... you must have this problem book on shelf. You can look up ALMOST every typical problem that appeared on qualifying exams--almost any hard problem you don't know how to solve. I personally find this very very helpful. Highly recommended!

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