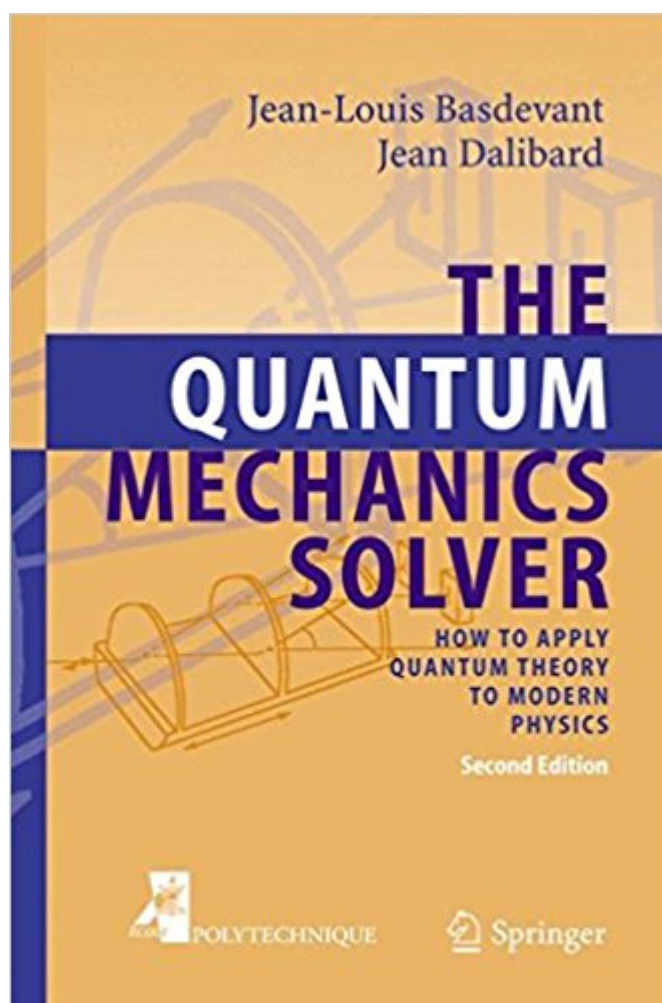


The book was found

# 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 exercises 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-learned theory to fields such as molecular physics, condensed matter physics or laser physics.

## Book Information

Hardcover: 292 pages

Publisher: Springer; 2nd edition (October 19, 2005)

Language: English

ISBN-10: 3540277218

ISBN-13: 978-3540277217

Product Dimensions: 6.1 x 0.8 x 9.2 inches

Shipping Weight: 1.2 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 3 customer reviews

Best Sellers Rank: #730,264 in Books (See Top 100 in Books) #111 in Books > Science & Math > Physics > Molecular Physics #113 in Books > Science & Math > Physics > Light #243 in Books > Science & Math > Physics > Solid-State Physics

## 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!

[Download to continue reading...](#)

The Quantum Mechanics Solver: How to Apply Quantum Theory to Modern Physics Advanced  
Molecular Quantum Mechanics: An Introduction to Relativistic Quantum Mechanics and the  
Quantum Theory of Radiation (Studies in Chemical Physics) Home Gardener's Problem Solver:  
Symptoms and Solutions for More Than 1,500 Garden Pests and Plant Ailments (Ortho Home  
Gardener's Problem Solver) Quantum Mechanics: Re-engineering Your Life With Quantum  
Mechanics & Affirmations How to Write a Grant Proposal: A Step-by-Step Guide to Apply for Small  
Business Grants or Other Government Grants (How to Apply for a Grant) The Feynman Lectures on  
Physics, Vol. III: The New Millennium Edition: Quantum Mechanics: Volume 3 (Feynman Lectures  
on Physics (Paperback)) Covariant Loop Quantum Gravity: An Elementary Introduction to Quantum  
Gravity and Spinfoam Theory (Cambridge Monographs on Mathematical Physics) Head First  
Physics: A learner's companion to mechanics and practical physics (AP Physics B - Advanced  
Placement) Quantum Electrodynamics: Gribov Lectures on Theoretical Physics (Cambridge  
Monographs on Particle Physics, Nuclear Physics and Cosmology) Methods of Quantum Field  
Theory in Statistical Physics (Dover Books on Physics) Recent Advances in the Theory of Chemical  
and Physical Systems: Proceedings of the 9th European Workshop on Quantum Systems in  
Chemistry and Physics ... in Theoretical Chemistry and Physics) Quantum Ontology: A Guide to the  
Metaphysics of Quantum Mechanics Physics for Scientists and Engineers with Modern Physics:  
Volume II (3rd Edition) (Physics for Scientists & Engineers) The Feynman Lectures on Physics:  
Volume 1, Quantum Mechanics The Feynman Lectures on Physics: Volume 2, Advanced Quantum  
Mechanics Fundamentals of Physics II: Electromagnetism, Optics, and Quantum Mechanics (The  
Open Yale Courses Series) Fundamentals of Physics II: Electromagnetism, Optics, and Quantum

Mechanics: 2 (The Open Yale Courses Series) The Feynman Lectures on Physics, Vol. III: The New Millennium Edition: Quantum Mechanics (Volume 3) Theoretical Physics 6: Quantum Mechanics - Basics Six Stories from the End of Representation: Images in Painting, Photography, Astronomy, Microscopy, Particle Physics, and Quantum Mechanics, 1980-2000 (Writing Science)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)