



## Introduction to Quantum Mechanics: in Chemistry, Materials Science, and Biology (Complementary Science)

By Sy M. Blinder

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*Introduction to Quantum Mechanics* provides a lucid, up-to-date introduction to the principles of quantum mechanics at the level of undergraduates and first-year graduate students in chemistry, materials science, biology and related fields. It shows how the fundamental concepts of quantum theory arose from classic experiments in physics and chemistry, and presents the quantum-mechanical foundations of modern techniques including molecular spectroscopy, lasers and NMR.

Blinder also discusses recent conceptual developments in quantum theory, including Schrödinger's Cat, the Einstein-Podolsky-Rosen experiment, Bell's theorem and quantum computing.

- Clearly presents the basics of quantum mechanics and modern developments in the field
- Explains applications to molecular spectroscopy, lasers, NMR, and MRI
- Introduces new concepts such as Schrödinger's Cat, Bell's Theorem, and quantum computing
- Includes full-color illustrations, proven pedagogical features, and links to online materials

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**Introduction to Quantum Mechanics: in Chemistry, Materials Science, and Biology (Complementary Science) By Sy M. Blinder Bibliography**

- Sales Rank: #1807729 in Books
- Published on: 2004-06-21
- Released on: 2004-06-07
- Original language: English
- Number of items: 1
- Dimensions: 9.00" h x .83" w x 6.00" l, 1.33 pounds
- Binding: Paperback
- 319 pages

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"I like the book very much. It is clearly written, in a style that should be appealing to students. The figures are especially good, and well chosen to illustrate important concepts that are often discussed without illustration...I found the explanations in the main text to be excellent...I would strongly recommend the book ." --**Doug Doren, University of Delaware**

"...This is an excellent book to use to introduce Quantum Mechanics to the desired audience...The organisation and style of the book are such that a student would find it easy to read and follow the physical, chemical and mathematical principles under discussion." --**Jim McTavish, Liverpool John Moores University**

"*Introduction to Quantum Mechanics* is probably suited as a graduate text for students outside chemistry who need to understand quantum mechanics without undertaking a full year of physical chemistry. In addition to mastering the *mechanics*, lucky readers of this book will explore the fascinating philosophical and metaphysical implications launched into popular culture the word, *quantum*." --**Kevin. M. Dunn, Hampden-Sydney College, VA, USA, JOURNAL OF CHEMICAL EDUCATION, Vol. 82, No. 3, 2005**

#### About the Author

By Dr. Sy L. Blinder

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An up-to-date, comprehensive introduction to the principles of quantum mechanics.

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