



**US\$  
89.00**  
only

**Author:**  
Iraj R. Afnan  
Australia

eISBN: 978-1-60805-250-9

## Quantum Mechanics with Applications

[www.benthamscience.com/ebooks/9781608052509](http://www.benthamscience.com/ebooks/9781608052509)

### About the ebook

The ebook introduces undergraduate students to the basic skills required to use non-relativistic quantum mechanics for bound and scattering problems in atomic, molecular and nuclear physics. Initial emphasis is on problems that admit analytic solutions. These results are then used in conjunction with symmetry to develop approximation methods for both bound and scattering problems.

#### Contents

- ▶ Classical Mechanics - A Review
- ▶ Wave Packet and the Uncertainty Principle
- ▶ The Schrodinger Equation
- ▶ Simple One Dimensional Problems
- ▶ Application of Quantum Mechanics
- ▶ Molecular Vibration - The Harmonic Oscillator
- ▶ Central Force Problem I
- ▶ Central Force Problem II

For Sales Advertising Inquiries: Contact: [marketing@benthamscience.org](mailto:marketing@benthamscience.org)