



Applied Quantum Mechanics (Second Edition)

By A.F.J. Levi

Cambridge University Press, New Delhi, India, 2009. Hardcover. Book Condition: New. Dust Jacket Condition: New. Second Edition. Electrical and mechanical engineers, materials scientists and applied physicists will find Levi's uniquely practical explanation of quantum mechanics invaluable. This updated and expanded edition of the bestselling original text now covers quantization of angular momentum and quantum communication, and problems and additional references are included. Using real-world engineering examples to engage the reader, the author makes quantum mechanics accessible and relevant to the engineering student. Numerous illustrations, exercises, worked examples and problems are included.

Contents Preface to the second edition Preface to the first edition Matlab programs 1. Introduction 2. Toward quantum mechanics 3. Using the Schrödinger wave equation 4. Electron propagation 5. Eigenstates and operators 6. The harmonic oscillator 7. Fermions and bosons 8. Time-dependent perturbation 9. The semiconductor laser 10. Time-independent perturbation 11. Angular momentum and the hydrogenic atom A. Physical values B. Coordinates C. Expansions, differentiation, integrals, and mathematical relations D. Matrices and determinants E. Vector calculus and Maxwells equations F. The Greek alphabet Index. Printed Pages: 574 with 240 line figures, 69 exercises, and 88 worked examples. Size: 175 x 240 Mm.



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