

Quantum Mechanics, Fifth Edition

By Alastair I. M. Rae



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For more than 25 years, Alastair Rae's Quantum Mechanics has been one of the most highly regarded textbooks in this area. From elementary atomic physics and mathematics, to angular momentum and time dependence, to relativity and quantum computing, the text shows how cutting-edge research topics of quantum mechanics have been applied to various disciplines.

Retaining the clarity of its predecessors, this fifth edition presents revised and updated material throughout the text. It offers a clear exposition of fundamental ideas, additional worked examples of the application of quantum mechanics principles to a range of physical problems, and more information on modern quantum information technology. This text was one of the first to include a substantial discussion of the conceptual and philosophical implications of quantum mechanics, which has been revised and extended in the fifth edition. Other topics covered include one- and three-dimensional Schrödinger equations, angular momentum, time-independent perturbation theory, time dependence, scattering, and relativity.

Cementing its reputation as an exceptional introductory textbook, Quantum Mechanics, Fifth Edition fully covers the concepts of quantum mechanics taught in an undergraduate physics course and provides the foundation necessary for other specialized courses.





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