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*Introduction to Quantum Mechanics*

Based on a Cal Tech course, this is an outstanding introduction to formal quantum mechanics for advanced undergraduates in applied physics. The treatment's exploration of a wide range of topics culminates in two eminently practical subjects, the semiconductor transistor and the laser. Each chapter concludes with a set of problems. 1982 edition.

*An Introduction to Theory and Applications of Quantum ...*

Important applications of quantum theory include quantum chemistry, quantum optics, quantum computing, superconducting magnets, light-emitting diodes, the optical amplifier and the laser, the transistor and semiconductors such as the microprocessor, medical and research imaging such as magnetic resonance imaging and electron microscopy.

*Quantum mechanics - Wikipedia*

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### *An Introduction to Theory and Applications of Quantum ...*

of quantum mechanics, starting with the important role played by entanglement as a way to distinguish between a quantum and classical world. We will provide a more general view of the basic ideas of states and measurements, as well as an introduction to the quantum mechanics of open systems. The nal major topic is scattering theory.

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