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**Sinopsis**

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Balances mathematical discussions with physical discussions.

\* Derivations are complete and the theory is applied whenever possible.

\* Gasiorowicz is a world class researcher in quantum physics.

An introduction to quantum physics, emphasizing applications and worked examples. Covers the Schrodinger equation and wave mechanics, atomic physics problems and operator methods, and the interaction of charged particles with a magnetic field. A special topics section covers relativistic kinematics, the density operator, and the Wentzel- Kramers-Brillouin approximation. The second edition, published 20 years after the first, includes more attention to the physics behind the formal results of calculations and to radiation theory.