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By Max Born

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First published in English in 1935, this classic treatment is well known to students and teachers of physics around the world. Since its original publication, Professor Born (Nobel laureate, 1954) continually updated the book to incorporate new developments in all branches of physics, particularly in the field of elementary particles. For this eighth edition he also wrote a new chapter on the quantum theory of solids.

Contents include:

- Kinetic theory of gases
- Elementary particles
- Spin of the electron and Paul's principle
- The nuclear atom
- Wave-corpuscles
- Atomic structure and spectral lines
- Quantum statistics
- Molecular structure
- Quantum theory of solids
- Nuclear physics

Over 40 helpful appendixes, dealing with the mean square deviation, theory of relativity, electron theory, the Compton effect, Hamiltonian theory and action variables, atomic form factor, meson theory, van der Waals forces, and other topics supplement the main text. A bibliography and numerous figures and graphs further enhance the usefulness of *Atomic Physics*, which retains its value as a broad treatment of basic physics from the special perspective of a towering figure in the field.

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Editorial Review

Language Notes

Text: English, German (translation)

About the Author

Born was a physicist. He became a professor of theoretical physics at Gottingen, a lecturer at Cambridge, and professor of natural philosophy at Edinburgh. He won the Nobel Prize in 1954 with Walter Bothe in the field of quantum physics.

Blin-Stoyle, former IOP President, former Professor in the Department of Physics and Astronomy, University of Sussex, UK.

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