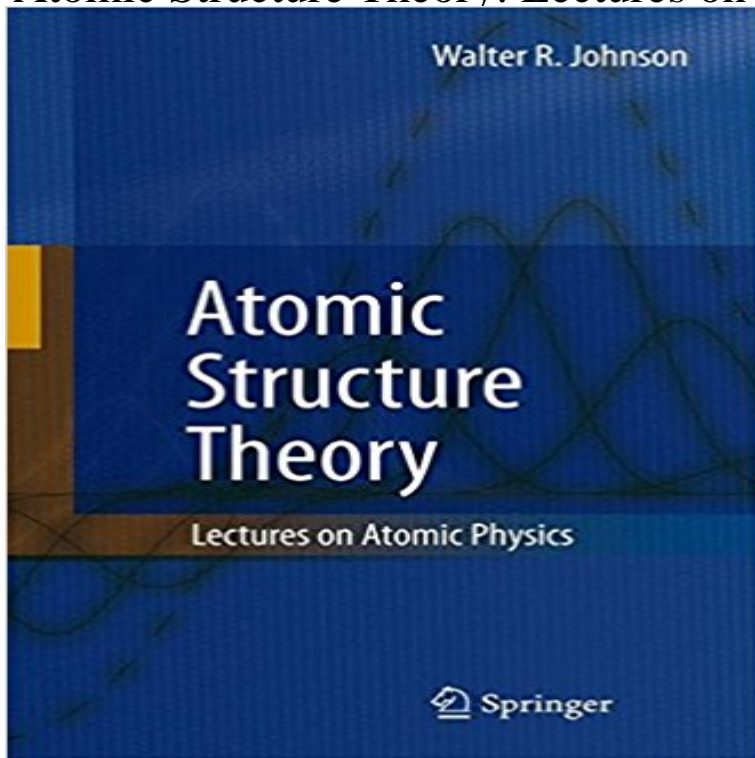


# Atomic Structure Theory: Lectures on Atomic Physics



This book provides a hands-on experience with atomic structure calculations. Material covered includes angular momentum methods, the central field Schrodinger and Dirac equations, Hartree-Fock and Dirac-Hartree-Fock equations, multiplet structure, hyperfine structure, the isotope shift, dipole and multipole transitions, basic many-body perturbation theory, configuration interaction, and correlation corrections to matrix elements. The book also contains numerical methods for solving the Schrodinger and Dirac eigenvalue problems and the (Dirac)-Hartree-Fock equations.

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