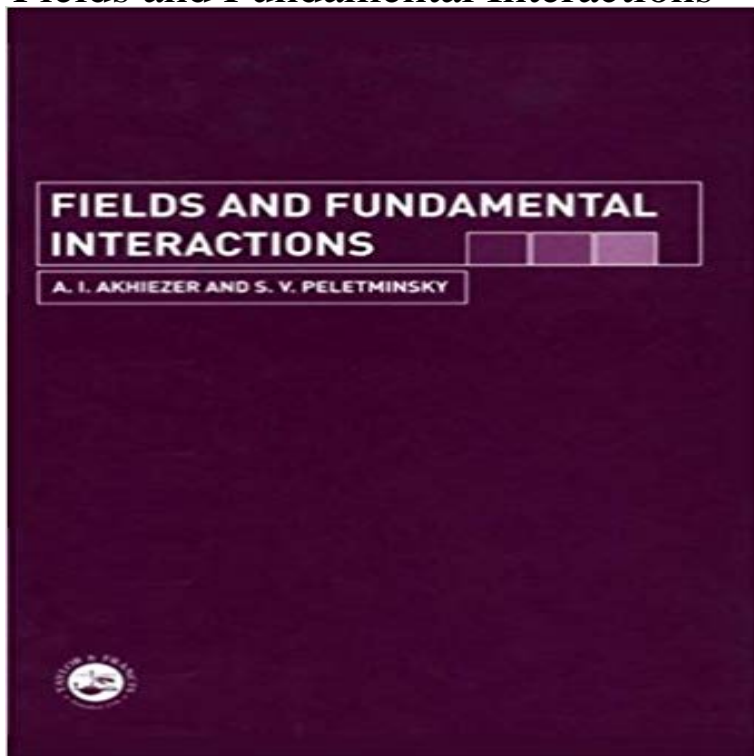


Fields and Fundamental Interactions



The author presents the general methods of quantization of physical fields including Bose, Fermi, and gauge fields, and the methods for eliminating divergences arising in the modern theory of interacting fields are discussed in detail. The concept of quarks and gluons is used as a basis for formulating quantum chromodynamics, which represents a theory of the strong interactions of hadrons. The theory of electroweak interaction generalizes Fermi's theory of beta decay and unifies the theories of weak and electromagnetic interactions, and both Einstein's theory of gravitation and the theory of superfields are developed in terms of non-Abelian gauge fields. Fields and Fundamental Interactions is an indispensable reference for graduates and researchers in the fields of quantum theory, quantum electrodynamics and elementary particle physics.

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