



Introduction to High Energy Physics

By Donald H. Perkins

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This highly regarded textbook for advanced undergraduates provides a comprehensive introduction to modern particle physics. Coverage emphasizes the balance between experiment and theory. It places stress on the phenomenological approach and basic theoretical concepts rather than rigorous mathematical detail. Donald Perkins also details recent developments in elementary particle physics, as well as its connections with cosmology and astrophysics. A number of key experiments are also identified along with a description of how they have influenced the field. Perkins presents most of the material in the context of the Standard Model of quarks and leptons. He also fully explores the shortcomings of this model and new physics beyond its compass (such as supersymmetry, neutrino mass and oscillations, GUTs and superstrings). The text includes many problems and a detailed and annotated further reading list. The volume will also provide a solid foundation for graduate study.

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