



An Introduction to Elementary Particle Phenomenology (IOP Expanding Physics)

Philip G Ratcliffe

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This book deals with the development of particle physics, in particular through the exacting and all-important interplay between theory and experiment, an area that has now become known as phenomenology. Particle physics phenomenology provides the connection between the mathematical models created by theoretical physicists and the experimentalists who explore the building blocks of matter and the forces that operate between them. Assuming no more background knowledge than the basics of quantum mechanics, relativistic mechanics and nuclear physics, the author presents a solid and clear motivation for the developments witnessed by the particle physics community at both high and low energies over that last 50 or 60 years. In particular, the role of symmetries and their violation is central to many of the discussions. Including exercises and many references to original experimental and theoretical papers, as well as other useful sources, it will be essential reading for all students and researchers in modern particle physics.

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