



An Introductory Course of Particle Physics

By Palash B. Pal

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For graduate students unfamiliar with particle physics, **An Introductory Course of Particle Physics** teaches the basic techniques and fundamental theories related to the subject. It gives students the competence to work out various properties of fundamental particles, such as scattering cross-section and lifetime. The book also gives a lucid summary of the main ideas involved.

In giving students a taste of fundamental interactions among elementary particles, the author does not assume any prior knowledge of quantum field theory. He presents a brief introduction that supplies students with the necessary tools without seriously getting into the nitty-gritty of quantum field theory, and then explores advanced topics in detail. The book then discusses group theory, and in this case the author assumes that students are familiar with the basic definitions and properties of a group, and even $SU(2)$ and its representations. With this foundation established, he goes on to discuss representations of continuous groups bigger than $SU(2)$ in detail.

The material is presented at a level that M.Sc. and Ph.D. students can understand, with exercises throughout the text at points at which performing the exercises would be most beneficial. Anyone teaching a one-semester course will probably have to choose from the topics covered, because this text also contains advanced material that might not be covered within a semester due to lack of time. Thus it provides the teaching tool with the flexibility to customize the course to suit your needs.

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Editorial Review

Review

"... a pedagogical, thorough, and enjoyable introduction to this fascinating subject. ... a carefully written textbook on the Standard Model in the post-LHC era, at the level of a graduate-level course. ... Theorists and phenomenologists with an interest in particle physics would also do well to acquire a copy. ... The biggest strength of this book is its pedagogical clarity. ... Apart from the pedagogical value for novices, the later chapters of the book are interesting for active high-energy physicists as well ... as a textbook, Palash Pal's tome on particle physics is accessibly written for serious beginning students, and is a great addition to the bookshelves of seasoned scientists interested in the phenomenological foundations of the Standard Model."
Current Science, April 2015

Users Review

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