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Soggetti	Nuclear physics Elementary particles (Physics) Quantum field theory Particle accelerators Nuclear Physics Elementary Particles, Quantum Field Theory Accelerator Physics
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Nota di contenuto	I Problems -- 1 Nuclear Physics -- 2 Particle Physics -- 3 Experiments and detection methods -- II Solutions -- 4 Nuclear Physics -- 5 Particle Physics -- 6 Experiments and detection methods.
Sommario/riassunto	This book presents 140 problems with solutions in introductory nuclear and particle physics. Rather than being only partially provided or simply outlined, as is typically the case in textbooks on nuclear and particle physics, all solutions are explained in detail. Furthermore, different possible approaches are compared. Some of the problems concern the estimation of quantities in realistic experimental situations. In general, solving the problems does not require a substantial mathematics background, and the focus is instead on developing the reader's sense of physics in order to work out the problem in question. Consequently, sections on experimental methods and detection methods constitute a major part of the book. Given its format and content, it offers a valuable resource, not only for undergraduate classes but also for self-

assessment in preparation for graduate school entrance and other
examinations.
