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Autore	D'Auria Saverio
Titolo	Introduction to Nuclear and Particle Physics / / by Saverio D'Auria
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Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (XII, 192 p. 113 illus., 80 illus. in color.)
Collana	Undergraduate Lecture Notes in Physics, , 2192-4791
Disciplina	539.7
Soggetti	Nuclear physics Gravitation Nuclear chemistry Particle and Nuclear Physics Classical and Quantum Gravitation, Relativity Theory Nuclear Chemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction to radiation -- Introduction to special relativity -- Radioactive decays -- Passage of radiation through the matter -- Introduction to Particle Physics -- Introduction to Nuclear Physics -- Six Problems -- Bibliography.
Sommario/riassunto	This textbook fills the gap between the very basic and the highly advanced volumes that are widely available on the subject. It offers a concise but comprehensive overview of a number of topics, like general relativity, fission and fusion, which are otherwise only available with much more detail in other textbooks. Providing a general introduction to the underlying concepts (relativity, fission and fusion, fundamental forces), it allows readers to develop an idea of what these two research fields really involve. The book uses real-world examples to make the subject more attractive and encourage the use of mathematical formulae. Besides short scientists' biographies, diagrams, end-of-chapter problems and worked solutions are also included. Intended mainly for students of scientific disciplines such as physics and chemistry who want to learn about the subject and/or the related techniques, it is also useful to high school teachers wanting to refresh

or update their knowledge and to interested non-experts.

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