1. Record Nr. UNISA996205749703316

Titolo	The California journal of emergency medicine
Pubbl/distr/stampa	Calabasas, CA, : California Chapter of the American Academy of Emergency Medicine
ISSN	1948-3392
Disciplina	616.02
Soggetti	Emergency medicine Emergency Medicine Periodical Periodicals.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico

2. Record Nr. UNINA9910508452003321

Autore	Belyaev Alexander
Titolo	The Basics of Nuclear and Particle Physics / / by Alexander Belyaev, Douglas Ross
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2021
ISBN	3-030-80116-0
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (412 pages)
Collana	Undergraduate Texts in Physics, , 2510-4128
Classificazione	KPH 60
Disciplina	539.7
Soggetti	Nuclear physics Particles (Nuclear physics) Quantum field theory Quantum theory Nuclear and Particle Physics Elementary Particles, Quantum Field Theory Quantum Physics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Chapter 1. Rutherford Scattering -- Chapter 2. Nuclear Size and Shape -- Chapter 3. Nuclear Masses and the Semi-Empirical Mass Formula -- Chapter 4. The Nuclear Shell Model -- Chapter 5. Radioactivity -- Chapter 6. Alpha Decay -- Chapter 7. Beta Decay -- Chapter 8. Gamma Decay -- Chapter 9. Nuclear Fission -- Chapter 10. Nuclear Fusion -- Chapter 11. Charge Independence and Isospin -- Chapter 12. The forces of Nature and Particle Classification -- Chapter 13. Particle Accelerators -- Chapter 14. Particle Detectors -- Chapter 15. Constituent Quarks -- Chapter 16. Particle Interactions and Cross Sections -- Chapter 17. Weak Interactions -- Chapter 18. The Higgs Mechanism and the Higgs boson -- Chapter 19. Electromagnetic Interactions -- Chapter 20. Quantum Chromodynamics (QCD) -- Chapter 21. Parity, Charge Conjugation, and CP -- Chapter 22. Beyond the Standard Model (BSM).
Sommario/riassunto	This undergraduate textbook breaks down the basics of Nuclear Structure and modern Particle Physics. Based on a comprehensive set of course notes, it covers all the introductory material and latest research developments required by third- and fourth-year physics students. The textbook is divided into two parts. Part I deals with Nuclear Structure, while Part II delves into Particle Physics. Each section contains the most recent science in the field, including experimental data and research on the properties of the top quark and Higgs boson. Detailed mathematical derivations are provided where necessary to helps students grasp the physics at a deeper level. Many of these have been conveniently placed in the Appendices and can be omitted if desired. Each chapter ends with a brief summary and includes a number of practice problems, the answers to which are also provided.