

1. Record Nr.	UNISA996466697703316
Titolo	Topics in strangeness nuclear physics // edited by P. Bydzovsky, A. Gal, J. Mares
Pubbl/distr/stampa	Berlin, Germany ; ; New York, United States : , : Springer, , [2007] ©2007
ISBN	1-280-96018-3 9786610960187 3-540-72039-1
Edizione	[1st ed. 2007.]
Descrizione fisica	1 online resource (199 p.)
Collana	Lecture Notes in Physics, , 0075-8450 ; ; 724
Disciplina	539.7216
Soggetti	Strange particles Particles (Nuclear physics) Hyperons
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	The Production of Strange Nuclear Systems -- Hypernuclear Gamma-Ray Spectroscopy and the Structure of p-shell Nuclei and Hypernuclei -- Spectroscopy of Hypernuclei with Meson Beams -- The Hyperon-Nucleon Interaction: Conventional Versus Effective Field Theory Approach -- Weak Decays of Hypernuclei.
Sommario/riassunto	Strangeness nuclear physics bears a broad impact on contemporary physics since it lies at the intersection of nuclear and elementary particle physics, having, moreover, significant implications to the astrophysics of compact objects. This set of extensive lectures presents a balanced theoretical and experimental introduction to, and survey of, the field, addressing topics such as the production and spectroscopy of strange nuclear systems, modern approaches to the hyperon-nucleon interaction, and weak decays of hypernuclei. With new experiments underway, this burgeoning research field is well served by this tutorial primer and review for both newcomers and seasoned researchers alike.