

1. Record Nr.	UNISA996466801803316
Titolo	The Euroschool Lectures on Physics with Exotic Beams, Vol. I [[electronic resource] /] / edited by J.S. Al-Khalili, Ernst Roeckl
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2004
ISBN	3-540-44490-4
Edizione	[1st ed. 2004.]
Descrizione fisica	1 online resource (XVI, 491 p. 104 illus. in color.)
Collana	Lecture Notes in Physics, , 0075-8450 ; ; 651
Disciplina	539.7/3
Soggetti	Nuclear physics Heavy ions Particle acceleration Physical measurements Measurement Nuclear Physics, Heavy Ions, Hadrons Particle Acceleration and Detection, Beam Physics Measurement Science and Instrumentation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	The Why and How of Radioactive Beams -- Shell Model from a Practitioner's Point of View -- Halo Nuclei -- In-Flight Separation of Projectile Fragments -- Measurement of Mass and Beta-Lifetime of Stored Exotic Nuclei -- Traps for Rare Isotopes -- Decay Studies of NZ-Nuclei -- Gamma-Ray and Conversion-Electron Spectroscopy of Exotic Heavy Nuclei -- Selected Topics in Reaction Studies with Exotic Beams -- Weak Interaction Studies by Precision Decay Experiments in Nuclear Beta Decay -- Nuclear Processes in Stellar Environments -- Medical Applications of Accelerated Ions.
Sommario/riassunto	Research with radioactive ion beams has entered a new era with the advent of energetic beams of radioactive nuclei that are capable of inducing nuclear reactions. The present book is the first volume of edited lectures based on material presented at the Euroschool on Exotic Beams over the past years. It introduces the graduate student and nonspecialist scientist from related areas into various topics

encompassing theoretical, experimental as well as application-related aspects of this growing field of research.
