

1. Record Nr.	UNIORUON00148962
Autore	HUGHES, Thomas Patrick
Titolo	A dictionary of Islam being a cyclopaedia of the doctrines, rites, ceremonies (...) / Thomas Patrick Hughes
Pubbl/distr/stampa	London, : H. Allen & Co., 1895
Descrizione fisica	750 p. : ill. ; 23 cm
Classificazione	VO II A
Soggetti	ISLAM - Enciclopedie e dizionari
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
2. Record Nr.	UNINA9910250049203321
Titolo	An Advanced Course in Computational Nuclear Physics : Bridging the Scales from Quarks to Neutron Stars / / edited by Morten Hjorth-Jensen, Maria Paola Lombardo, Ubirajara van Kolck
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2017
ISBN	3-319-53336-3
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (XVI, 644 p. 141 illus., 64 illus. in color.)
Collana	Lecture Notes in Physics, , 0075-8450 ; ; 936
Disciplina	539.7
Soggetti	Nuclear physics Heavy ions Physics Astrophysics Particles (Nuclear physics) Quantum field theory Nuclear Physics, Heavy Ions, Hadrons Numerical and Computational Physics, Simulation Astrophysics and Astroparticles Elementary Particles, Quantum Field Theory
Lingua di pubblicazione	Inglese

Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Motivation and overarching aims -- Quantum Chromodynamics -- Lattice quantum chromodynamics. - General aspects of effective field theories and few-body applications -- Lattice methods and effective field theory -- Lattice methods and the nuclear few- and many-body problem -- Ab initio methods for nuclear structure and reactions: from few to many Nucleons -- Computational Nuclear Physics and Post Hartree-Fock Methods -- Variational and Diffusion Monte Carlo approaches to the nuclear few- and many-body problem -- In-medium SRG approaches to infinite nuclear matter -- Self-consistent Green's function approaches.
Sommario/riassunto	This graduate-level text collects and synthesizes a series of ten lectures on the nuclear quantum many-body problem. Starting from our current understanding of the underlying forces, it presents recent advances within the field of lattice quantum chromodynamics before going on to discuss effective field theories, central many-body methods like Monte Carlo methods, coupled cluster theories, the similarity renormalization group approach, Green's function methods and large-scale diagonalization approaches. Algorithmic and computational advances show particular promise for breakthroughs in predictive power, including proper error estimates, a better understanding of the underlying effective degrees of freedom and of the respective forces at play. Enabled by recent improvements in theoretical, experimental and numerical techniques, the state-of-the art applications considered in this volume span the entire range, from our smallest components – quarks and gluons as the mediators of the strong force – to the computation of the equation of state for neutron star matter. The lectures presented provide an in-depth exposition of the underlying theoretical and algorithmic approaches as well details of the numerical implementation of the methods discussed. Several also include links to numerical software and benchmark calculations, which readers can use to develop their own programs for tackling challenging nuclear many-body problems.