

1. Record Nr.	UNINA9910788572203321
Titolo	The nucleon-nucleon interaction and the nuclear many-body problem : selected papers of Gerald E. Brown and T. T. S. Kuo // editors, Gerald E. Brown [and three others]
Pubbl/distr/stampa	Singapore : , : World Scientific, , 2010 ©2010
ISBN	1-280-66915-2 9786613646088 981-4289-29-9
Descrizione fisica	1 online resource (500 p.)
Disciplina	539.7212
Soggetti	Nucleon-nucleon interactions Many-body problem
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 at the end of each chapters.
Nota di contenuto	ch. I. Introduction. 1.1. Nuclear matter : An brief overview. 1.2. Development of Kuo-Brown effective interactions. 1.3. Towards a unique low-momentum nucleon-nucleon interaction. 1.4. Brown-Rho scaling and density-dependent nuclear interactions -- ch. II. Nuclear many-body problems and the Brueckner G-matrix. Commentary. Structure of finite nuclei and the free nucleon-nucleon interaction - General discussion of the effective force / G. E. Brown and T. T. S. Kuo. Structure of finite nuclei and the free nucleon-nucleon interaction - An application to ^{16}O and ^{18}F / T. T. S. Kuo and G. E. Brown. A folded-diagram expansion of the model-space effective Hamiltonian / T. T. S. Kuo, S. Y. Lee and K. F. Ratcliff. Convergence of effective Hamiltonian expansion and partial summations of folded diagrams / E. M. Krenciglowa and T. T. S. Kuo. The nuclear reaction matrix / E. M. Krenciglowa ... [et al.]. Hartree-Fock self-consistent potential and linked-valence expansion of the effective interaction / M. R. Anastasio ... [et al.]. Theory of energy-independent nuclear optical-model potentials / T. T. S. Kuo, F. Osterfeld and S. Y. Lee. A simple method for evaluating Goldstone diagrams in an angular momentum coupled

representation / T. T. S. Kuo ... [et al.]. Contributions from high-momentum intermediate states to effective nucleon-nucleon interactions / H. M. Sommermann ... [et al.]. Folded diagrams and 1s-0d shell effective interactions derived from Reid and Paris nucleon-nucleon potentials / J. Shurpin, T. T. S. Kuo and D. Strottman. Three-body forces in sd-shell nuclei / A. Polls ... [et al.]. Model-space nuclear matter calculations with the Paris nucleon-nucleon potential / T. T. S. Kuo, Z. Y. Ma and R. Vinh Mau. Infinite order summation of particle-particle ring diagrams in a model-space approach for nuclear matter / H. Q. Song, S. D. Yang and T. T. S. Kuo -- ch. III. Low-momentum NN interactions in a renormalization group approach. Commentary. Low momentum nucleon-nucleon potentials with half-on-shell T-matrix equivalence / S. Bogner, T. T. S. Kuo and L. Coraggio. Low-momentum nucleon-nucleon potential and shell model effective interactions / S. Bogner ... [et al.]. Low-momentum nucleon-nucleon interaction and Fermi liquid theory / A. Schwenk, G. E. Brown and B. Friman. Model-independent low momentum nucleon interaction from phase shift equivalence / S. K. Bogner, T. T. S. Kuo and A. Schwenk. Towards a model-independent low-momentum nucleon-nucleon interaction / S. K. Bogner ... [et al.]. Family of hermitian low-momentum nucleon interactions with phase shift equivalence / J. D. Holt, T. T. S. Kuo and G. E. Brown. Counter terms for low-momentum nucleon-nucleon interactions / J. D. Holt ... [et al.]. Low momentum shell model effective interactions with all-order core polarizations / J. D. Holt ... [et al.]. Low-momentum hyperon-nucleon interaction / B.-J. Schaefer ... [et al.]. Hans Bethe and the nuclear many-body problem / J. W. Holt and G. E. Brown. Shell model calculations and realistic effective interaction / L. Coraggio ... [et al.] -- ch. IV. Brown-rho scaling in nuclei, nuclear matter and neutron stars. Commentary. Scaling effective Lagrangians in a dense medium / G. E. Brown and M. Rho. Nuclear matter with Brown-Rho-scaled Fermi liquid interactions / J. W. Holt ... [et al.]. Shell model description of the ^{12}C beta decay with Brown-Rho-scaled NN interactions / J. W. Holt ... [et al.]. Low-momentum NN interactions and all-order summation of ring diagrams of symmetric nuclear matter / L. -W. Siu ... [et al.]. Neutron stars, ^{12}C -stable ring-diagram equation of state and Brown-Rho scaling / H. Dong, T. T. S. Kuo and R. Machleidt.

Sommario/riassunto

This book provides a comprehensive overview of some key developments in the understanding of the nucleon-nucleon interaction and nuclear many-body theory. The main problems at the level of meson exchange physics have been solved, and we have an effective field theory using a phenomenological interaction pioneered by Achim Schwenk and Scott Bogner, which is nearly universally accepted as a unique low-momentum interaction that includes all experimental data to date. This understanding is based on a multi-step development in which different scientific insights and a wide range of physical and mat

2. Record Nr.	UNINA9910795817103321
Autore	Glasgow Larry A. <1950->
Titolo	Applied mathematics for science and engineering / / Larry A. Glasgow
Pubbl/distr/stampa	Hoboken, New Jersey : , : Wiley, , 2014 2014
ISBN	1-118-74976-6 1-118-75054-3
Descrizione fisica	1 online resource (259 pages) : illustrations
Disciplina	510
Soggetti	Engineering mathematics Technology - Mathematical models
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.

3. Record Nr.	UNINA990009069300403321
Titolo	Transplantation proceedings
Pubbl/distr/stampa	New York, : Appleton & Lange
ISSN	0041-1345
Disciplina	617/.95/005
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico