1. Record Nr. UNINA9910483239303321

Autore	Bartnik Ryszard
Titolo	Hierarchical gas-gas systems : thermal and economic effectiveness / / Ryszard Bartnik, Tomasz Wojciech Kowalczyk
Pubbl/distr/stampa	Cham, Switzerland : , : Springer, , [2021] ©2021
ISBN	3-030-69205-1
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (VIII, 148 p. 77 illus., 44 illus. in color.)
Collana	Power systems
Disciplina	621.3121
Soggetti	Electric power-plants Gas cooled reactors
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction -- Basic Thermodynamic Analyses of Hierarchical Systems -- Thermodynamic and Economic analysis of a Gas Turbine Set Coupled With a Turboexpander in a Hierarchical Gas-Gas System -- Thermodynamic and Economic Analysis of Trigeneration System with a Hierarchical Gas-Gas Engine for Production of Electricity, Heat and Cold -- Economic Analysis of Hydrogen Production in the Process of Water Electrolysis in a Gas-Gas Engine System -- Thermodynamic and Economic Analysis of a Hierarchical Gas-Gas Engine Integrated with a Compressed Air Storage -- Replacing Natural Gas in a Gas-Gas Engine with Nuclear Fuel.
Sommario/riassunto	This book presents a thermodynamic and economic analysis of gas-gas systems in power plants, including combined heat and power systems, combined cooling, heat and power systems, hydrogen production facilities and compressed energy storage system. A configuration for high-temperature gas-cooled nuclear reactor is also used as a heat source for the cycle. The book compares different technologies, such as gas-steam and gas-gas systems, using optimized cases. It presents mathematical models that return optimal thermodynamic parameters of the cycles, and applies a novel continuous-time model in order to perform an economic analysis as well. This book utilizes numerous illustrations and worked examples to thoroughly explain the technologies discussed, making it relevant for researchers, market

		analysts, decision makers, power engineers and students alike. .

2.	Record Nr.	UNINA9910257441703321
	Titolo	Few body systems and nuclear forces II : 8, international conference, held in Graz, August 24-30, 1978 / / edited by H. Zingl, M. Haftel, and H. Zankel
	Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer-Verlag, , [1978] ©1978
	ISBN	3-540-35555-3
	Edizione	[1st ed. 1978.]
	Descrizione fisica	1 online resource (X, 549 p.)
	Collana	Lecture Notes in Physics ; ; 87
	Disciplina	530.14
	Soggetti	Few-body problem Hadrons
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di contenuto	A new stable dibaryon-erratum -- Nucleon-nucleon scattering phase shifts -- Potentials in review -- Two hadron interaction -- Off-shell effects in the nucleon-nucleon system -- Polarization Phenomena in two body systems -- Quark models of the Nuclear Force -- Experiments on the conservation or non-conservation of Isospin parity, and charge conjugation and time reversal invariance -- Nucleon-induced experiments above pion threshold -- Pion production in nucleon-nucleon scattering -- Pion-nucleus interactions -- Meson induced reactions in the three- and two-nucleon systems -- Nuclear reactions involving three particle systems -- Lepton scattering -- Recent work in three-body systems -- Low-energy three- and four-nucleon scattering experiments -- Polarization effects in the 3-body system -- Dynamics of four particle systems -- Three-body phenomenology for elementary particle systems -- Exact results for the scattering of three charged particles -- Highlights of the Third International Conference on Clustering Aspects of Nuclear Structure and Nuclear Reactions -- Few-body aspects of the 6-nucleon system -- N-body systems -- Narrow resonances in the continuum --

Applications of few-body methods to other fields -- Twenty years of the few-body problem -- Recent progress in dispersion theoretical approach to nuclear forces -- Tensor analyzing powers in deuteron-proton elastic scattering and the breakup reaction at 45.4 MeV -- On polarization phenomena in proton-deuteron elastic scattering at medium and high energies -- The methods of solving the few-body problem in quantum mechanics -- Extension of the lane model to light nuclei -- Third cluster coefficient for square well discs -- Application of ATMS to the 4He trimer and tetramer -- Effects on the coulomb distortion on phase shifts and effective-range parameters in proton-proton scattering -- Limit on the applicability of the low theorem for proton-proton bremsstrahlung -- Optimal complete and optimal sufficient sets of experiments for elastic nucleon-nucleon scattering -- Polarization measurement in pp elastic scattering at 150 GeV/c between 0.2 2 -- The tensor analyzing power a for elastic scattering of xz 20.2 MeV deuterons from 4He. -- Evidence for fragment production via two body breakup -- p-d Scattering at very small relative energy observed in the FSI regions of the 3He(p,dp)p reaction at 156 Mev -- Finite cross section for three-particle scattering -- Charge-independent R-matrix analysis of the four-nucleon system -- Two-body scattering in force field -- Separable interaction of composite particles with inclusion of the Pauli principle -- ?? d ? ?nn and the effective range theory parameters ann and rnn.