

1. Record Nr.	UNISA990002845320203316
Titolo	La letteratura del mare : atti del Convegno di Napoli, 13-16 settembre 2004
Pubbl/distr/stampa	Roma, : Salerno editrice, 2006
ISBN	88-8402-512-5
Descrizione fisica	777 p. ; 23 cm
Collana	Pubblicazioni del Centro Pio Rajna . Sez. 1, Studi e saggi ; 14
Disciplina	809.9332162
Soggetti	Letteratura - Atti di Congressi - Napoli - 2004
Collocazione	VI.3.B. 3393 BB 808.80332162 LET
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
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2. Record Nr.	UNINA9910787644403321
Autore	Kirillov Oleg N. <1972->
Titolo	Nonconservative stability problems of modern physics // by Oleg N. Kirillov
Pubbl/distr/stampa	Berlin ; ; Boston : , : Walter de Gruyter GmbH & Co., KG, , [2013] ©2013
ISBN	3-11-027043-9
Descrizione fisica	1 online resource (448 p.)
Collana	De Gruyter Studies in Mathematical Physics ; ; 14
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Disciplina	530.4/74 530.474
Soggetti	Eigenvalues Mechanical impedance Oscillations Stability - Mathematical models
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographies (pages [387]-422) and indexes.
Nota di contenuto	Front matter -- Preface -- Contents -- Chapter 1: Introduction -- Chapter 2: Lyapunov stability and linear stability analysis -- Chapter 3: Hamiltonian and gyroscopic systems -- Chapter 4: Reversible and circulatory systems -- Chapter 5: Influence of structure of forces on stability -- Chapter 6: Dissipation-induced instabilities -- Chapter 7: Nonself-adjoint boundary eigenvalue problems for differential operators and operator matrices dependent on parameters -- Chapter 8: The destabilization paradox in continuous circulatory systems -- Chapter 9: The MHD kinematic mean field 2-dynamo -- Chapter 10: Campbell diagrams of gyroscopic continua and subcritical friction-induced flutter -- Chapter 11: Non-Hermitian perturbation of Hermitian matrices with physical applications -- Chapter 12: Magnetorotational instability -- References -- Index
Sommario/riassunto	This work gives a complete overview on the subject of nonconservative stability from the modern point of view. Relevant mathematical concepts are presented, as well as rigorous stability results and numerous classical and contemporary examples from mechanics and physics. It deals with both finite- and infinite-dimensional

nonconservative systems and covers the fundamentals of the theory, including such topics as Lyapunov stability and linear stability analysis, Hamiltonian and gyroscopic systems, reversible and circulatory systems, influence of structure of forces on stability, and dissipation-induced instabilities, as well as concrete physical problems, including perturbative techniques for nonself-adjoint boundary eigenvalue problems, theory of the destabilization paradox due to small damping in continuous circulatory systems, Krein-space related perturbation theory for the MHD kinematic mean field  $\alpha$ -dynamo, analysis of Campbell diagrams and friction-induced flutter in gyroscopic continua, non-Hermitian perturbation of Hermitian matrices with applications to optics, and magnetorotational instability and the Velikhov-Chandrasekhar paradox. The book serves present and prospective specialists providing the current state of knowledge in the actively developing field of nonconservative stability theory. Its understanding is vital for many areas of technology, ranging from such traditional ones as rotor dynamics, aeroelasticity and structural mechanics to modern problems of hydro- and magnetohydrodynamics and celestial mechanics.

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