

1. Record Nr.	UNIORUON00202456
Autore	BROWN, E. K.
Titolo	Syntax : a linguistic introduction to sentence structure / E. K. Brown, J. E. Miller
Pubbl/distr/stampa	London [etc.], : Hutchinson, 1980
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Descrizione fisica	394 p. ; 22 cm.
Altri autori (Persone)	MILLER, James Edward
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Lingua di pubblicazione	Inglese
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2. Record Nr.	UNINA9910254607503321
Autore	Rajasekar S (Shanmuganathan), <1963->
Titolo	Nonlinear resonances / / by Shanmuganathan Rajasekar, Miguel A. F. Sanjuan
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Soggetti	Statistical physics Vibration Dynamics Computational complexity System theory Electronic circuits Applications of Nonlinear Dynamics and Chaos Theory Vibration, Dynamical Systems, Control Complexity Complex Systems Circuits and Systems
Lingua di pubblicazione	Inglese
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Preface -- Harmonic and Nonlinear Resonances -- Stochastic Resonance -- Vibrational Resonance in Monostable Systems -- Vibrational Resonance in Multistable and Excitable Systems -- Vibrational and Stochastic Resonances in Spatially Periodic Systems -- Nonlinear and Vibrational Resonances in Time-Delayed Systems -- Signal Propagation in Unidirectionally Coupled -- Experimental Observation of Vibrational Resonance -- Ghost Resonances -- Parametric Resonance -- Autoresonance Resonance -- Slow Passage Through Resonance and Resonance Tongues -- Anti-Resonances -- Appendices.

Sommario/riassunto

This introductory text presents the basic aspects and most important features of various types of resonances and anti-resonances in dynamical systems. In particular, for each resonance, it covers the theoretical concepts, illustrates them with case studies, and reviews the available information on mechanisms, characterization, numerical simulations, experimental realizations, possible quantum analogues, applications and significant advances made over the years. Resonances are one of the most fundamental phenomena exhibited by nonlinear systems and refer to specific realizations of maximum response of a system due to the ability of that system to store and transfer energy received from an external forcing source. Resonances are of particular importance in physical, engineering and biological systems - they can prove to be advantageous in many applications, while leading to instability and even disasters in others. The book is self-contained, providing the details of mathematical derivations and techniques involved in numerical simulations. Though primarily intended for graduate students, it can also be considered a reference book for any researcher interested in the dynamics of resonant phenomena.
