1. Record Nr. UNINA9910449847303321

Autore	Manevich Arkadiy I
Titolo	The mechanics of nonlinear systems with internal resonances [[electronic resource] /] / Arkadiy I. Manevich, Leonid I. Manevitch
Pubbl/distr/stampa	London, : Imperial College Press, c2005
ISBN	1-281-86670-9 9786611866709 1-86094-682-8
Descrizione fisica	1 online resource (276 p.)
Altri autori (Persone)	ManevichL. I (Leonid Isaakovich)
Disciplina	531.32
Soggetti	Nonlinear oscillations Resonance Electronic books.
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 and index.
Nota di contenuto	Preface; Contents; Chapter 1 Single-Degree-of-Freedom Systems; Chapter 2 Autonomous Two-Degree-of-Freedom Symmetric Cubic Systems with Close Natural Frequencies; Chapter 3 Non-autonomous Two-Degree-of-Freedom Cubic Systems with Close Natural Frequencies; Chapter 4 Nonlinear Flexural Free and Forced Oscillations of a Circular Ring; Chapter 5 Localized Normal Modes in a Chain of Nonlinear Coupled Oscillators; Chapter 6 Nonlinear Dynamics of Coupled Oscillatory Chains; Chapter 7 Nonlinear Dynamics of Strongly Non-Homogeneous Chains with Symmetric Characteristics Chapter 8 Transversal Dynamics of One-Dimensional Chain on Nonlinear Asymmetric SubstrateConcluding Remarks; Appendix Inertial Forces and Methodology of Mechanics1; Bibliography; Index
Sommario/riassunto	One of the most important features of nonlinear systems with severaldegrees of freedom is the presence of internal resonances at certainrelations between natural frequencies of different modes. Thismonograph is the first book devoted predominantly to internalresonances in different mechanical systems including those ofpractical importance.

2. Record Nr. UNINA9910557787803321

Autore	Kurlyandskaya Galina V
Titolo	Biosensors with Magnetic Nanocomponents
Pubbl/distr/stampa	Basel, Switzerland, : MDPI - Multidisciplinary Digital Publishing Institute, 2020
Descrizione fisica	1 online resource (170 p.)
Soggetti	History of engineering and technology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	The selective and quantitative detection of biocomponents is greatly requested in biomedical applications and clinical diagnostics. Many traditional magnetic materials are not suitable for the ever-increasing demands of these processes. The push for a new generation of microscale sensors for bioapplications continues to challenge the materials science community to develop novel nanostructures that are suitable for such purposes. The principal requirements of a new generation of nanomaterials for sensor applications are based on well-known demands: high sensitivity, small size, low power consumption, stability, quick response, resistance to aggressive media, low price, and easy operation by nonskilled personnel. There are different types of magnetic effects capable of creating sensors for biology, medicine, and drug delivery, including magnetoresistance, spin valves, Hall and inductive effects, and giant magnetoimpedance. The present goal is to design nanomaterials both for magnetic markers and sensitive elements as synergetic pairs working in one device with adjusted characteristics of both materials. Synthetic approaches using the advantages of simulation methods and synthetic materials mimicking natural tissue properties can be useful, as can the further development of modeling strategies for magnetic nanostructures.

3. Record Nr. UNINA9910135472303321

Titolo	Soil & sediment contamination
Pubbl/distr/stampa	Boca Raton, Fla., : CRC Lewis Publishers, ©2000- [Philadelphia, PA] : , : Taylor & Francis
ISSN	1549-7887
Soggetti	Soil pollution Soil protection Electronic journals Sols - Pollution Sols - Protection Sedimentology Soil Sciences Periodicals.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	Refereed/Peer-reviewed "An international journal."