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Altri autori (Persone)	DingHu JiJinchen YurchenkoDaniil
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Soggetti	Multibody systems Vibration Mechanics, Applied Dynamics Nonlinear theories Control engineering Robotics Automation Multibody Systems and Mechanical Vibrations Applied Dynamical Systems Control, Robotics, Automation
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Nota di contenuto	Study on the dynamic performance of X-shaped vibration isolator with friction damping based on incremental harmonic balance method -- Vibrations Induced by Rubbing between Labyrinth and Rubber-Coating for Rotating Engine in Experiment -- Semi-Analytical Expression of Force and Stiffness of Perpendicular Polarized Ring Magnets for Nonlinear Dynamic Analysis -- On-orbit Reconfiguration Dynamics and Control of Heterogeneous Intelligent Spacecraft -- Study on the Effect

of Angular Misalignment on the Contact Load and Stiffness of Cylindrical Roller Bearings -- Dynamic Modeling and Features of GTF Engine Rotor System -- Nonlinear Dynamic Analysis of Rub-Impact Rod-Fastening Combined Rotor Systems with Internal Damping -- A Multiscale Fracture Model to Reveal the Toughening Mechanism in the Bioinspired Bouligand Structure -- Decoupled multi-mode controllable electrically interconnected suspension for improved vehicle damping performance -- Adaptive robust sliding-mode control of a semi-active seat suspension with variable inertance variable damping device.

Sommario/riassunto

This book provides readers with up-to-date advances in applied and interdisciplinary engineering science and technologies related to nonlinear dynamics, vibration, control, robotics, and their engineering applications, developed in the most recent years. All the contributed chapters come from active scholars in the area, which cover advanced theory and methods, innovative technologies, benchmark experimental validations and engineering practices. Readers would benefit from this state-of-the-art collection of applied nonlinear dynamics, in-depth vibration engineering theory, cutting-edge control methods and technologies and definitely find stimulating ideas for their on-going R&D work. This book is intended for graduate students, research staff, and scholars in academics and also provides useful hand-up guidance for professionals and engineers in practical engineering missions.
