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Nota di contenuto	Vehicle Vibrations Analysis of the Bicycle-car Model Considering Tire-road Separation -- Three-dimensional Nonlinear Vibration Model and Response Characteristics of Deep-water Riser-test Pipe System -- A Nonlinear Model of Radiant Flux Reflectivity in Nanocomposites -- Nonlinear Yaw Moment Control for Electric and Hybrid Vehicles -- A Comparison of QSS Optimal and Transient Optimal Vehicle Models in Minimum Time Maneuvers -- Dealing With Non-linearities in a 1:7 Autonomous Land Vehicle -- Correlation of Sea Level Oscillations in Korea and Japan -- Evolutionary Game Theory and Innovative Building Strategies.

Sommario/riassunto

This book focuses on the latest applications of nonlinear approaches in engineering and addresses a range of scientific problems. Examples focus on issues in automotive technology with a strong emphasis on application, physical meaning, and methodologies of the approaches. The book’s chapters are written by world-class experts who advance the future of engineering by discussing the development of more optimal, accurate, efficient, cost, and energy-effective systems. Topics covered are of high interest in engineering and physics, and an attempt has been made to expose engineers and researchers to a broad range of practical topics and approaches. Nonlinear Approaches in Engineering Application: Automotive Engineering Problems is appropriate for researchers, students, and practicing engineers interested in the applications of nonlinear approaches to solving engineering and science problems. Emphasizes automotive applications, physical meaning, and methodologies; Provides an analysis of modern applied engineering systems; Presents a broad range of practical topics and approaches.