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Titolo	Nonlinear Dynamical Systems with Self-Excited and Hidden Attractors / / edited by Viet-Thanh Pham, Sundarapandian Vaidyanathan, Christos Volos, Tomasz Kapitaniak
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Nota di contenuto	Bifurcation Analysis and Chaotic Behaviors of Fractional-Order Singular Biological Systems -- Synchronization Properties in Coupled Dry Friction Oscillators -- Analysis, Circuit Design and Synchronization of a New Hyperchaotic System with Three Quadratic Nonlinearities -- Synchronization Phenomena in Coupled Dynamical Systems with Hidden Attractors -- Hyperchaotic and Chaotic Systems with Non-hyperbolic Equilibria and Many Equilibria.
Sommario/riassunto	This book highlights the latest findings on nonlinear dynamical systems including two types of attractors: self-excited and hidden attractors. Further, it presents both theoretical and practical approaches to investigating nonlinear dynamical systems with self-excited and hidden attractors. The book includes 20 chapters contributed by respected experts, which focus on various applications such as biological systems, memristor-based systems, fractional-order systems, finance systems, business cycles, oscillators, coupled systems, hyperchaotic

systems, flexible robot manipulators, electronic circuits, and control models. Special attention is given to modeling, design, circuit realization, and practical applications to address recent research problems in nonlinear dynamical systems. The book provides a valuable reference guide to nonlinear dynamical systems for engineers, researchers, and graduate students, especially those whose work involves mechanics, electrical engineering, and control systems.