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Soggetti	Dynamics Ergodic theory Statistical physics System theory Dynamical Systems and Ergodic Theory Applications of Nonlinear Dynamics and Chaos Theory Complex Systems
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction -- Part I: Deterministic Systems -- Synchronization of global attractors and individual trajectories -- Master-slave synchronization via invariant manifolds -- Part II: Stochastic Systems -- Stochastic Synchronization of Random Pullback Attractors -- Master-slave synchronization in random systems.
Sommario/riassunto	The main goal of this book is to systematically address the mathematical methods that are applied in the study of synchronization of infinite-dimensional evolutionary dissipative or partially dissipative systems. It bases its unique monograph presentation on both general and abstract models and covers several important classes of coupled nonlinear deterministic and stochastic PDEs which generate infinite-dimensional dissipative systems. This text, which adapts readily to advanced graduate coursework in dissipative dynamics, requires some background knowledge in evolutionary equations and introductory functional analysis as well as a basic understanding of PDEs and the

theory of random processes. Suitable for researchers in synchronization theory, the book is also relevant to physicists and engineers interested in both the mathematical background and the methods for the asymptotic analysis of coupled infinite-dimensional dissipative systems that arise in continuum mechanics.
