Infinite Dimensional Dynamical Systems In Atmospheric And Oceanic Science Insute Of Applied Physics And Computational Mathematics China

Infinite-Dimensional Dynamical Systems Infinite-Dimensional Dynamical Systems in Mechanics and Physics Infinite Dimensional Dynamical Systems Infinite-dimensional Dynamical Systems In Atmospheric And Oceanic Science From Finite to Infinite Dimensional Dynamical Systems Infinite-dimensional Dynamical Systems An Introduction to Infinite Dimensional Dynamical Systems - Geometric Theory Attractors for infinite-dimensional non-autonomous dynamical systems Dynamics in Infinite Dimensions Local Bifurcations, Center Manifolds, and Normal Forms in Infinite-Dimensional Dynamical Systems The Connection Between Infinite Dimensional and Finite Dimensional Dynamical Systems Stabilization of Infinite Dimensional Systems Ergodicity for Infinite Dimensional Systems An Introduction to Infinite-Dimensional Analysis Introduction to the Theory of Infinite-dimensional Dissipative Systems Linear Port-Hamiltonian Systems on Infinite-dimensional Spaces The Connection between Infinite Dimensional and Finite Dimensional Dynamical Systems An Introduction to Infinite Dimensional Dynamical Systems--geometric Theory Dynamics of Infinite Dimensional Systems An Introduction to Infinite-Dimensional Linear Systems Theory

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In this book the author presents the dynamical systems in infinite dimension, especially those generated by dissipative partial differential equations. This book attempts a systematic study of infinite dimensional dynamical systems generated by dissipative evolution partial differential equations arising in mechanics and physics and in other areas of sciences and technology.

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Many of the concepts in dynamical systems can be extended to infinite-dimensional manifolds—those that are locally Banach spaces—in which case the differential equations are partial differential equations. In the late 20th century the dynamical system perspective to partial differential equations started gaining popularity. Further examples

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