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Autore	Ma Tian
Titolo	Phase Transition Dynamics / / by Tian Ma, Shouhong Wang
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Edizione	[2nd ed. 2019.]
Descrizione fisica	1 online resource (XXXI, 757 p. 196 illus., 10 illus. in color.)
Disciplina	515.353
Soggetti	Differential equations, Partial Fluids System theory Partial Differential Equations Fluid- and Aerodynamics Complex Systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction to Dynamic Transitions -- Dynamic Transition Theory -- Equilibrium Phase Transitions in Statistical Physics -- Fluid Dynamics -- Geophysical Fluid Dynamics and Climate Dynamics -- Dynamical Transitions in Chemistry and Biology -- Fundamental Principles of Statistical and Quantum Physics -- Quantum Mechanism of Condensates and High Tc Superconductivity -- Topological Phase Transitions. .
Sommario/riassunto	This book is an introduction to a comprehensive and unified dynamic transition theory for dissipative systems and to applications of the theory to a range of problems in the nonlinear sciences. The main objectives of this book are to introduce a general principle of dynamic transitions for dissipative systems, to establish a systematic dynamic transition theory, and to explore the physical implications of applications of the theory to a range of problems in the nonlinear sciences. The basic philosophy of the theory is to search for a complete set of transition states, and the general principle states that dynamic transitions of all dissipative systems can be classified into three categories: continuous, catastrophic and random. The audience for this

book includes advanced graduate students and researchers in mathematics and physics as well as in other related fields. This second edition introduces a unified theory for topological phase transitions, provides a first-principle approach to statistical and quantum physics, and offers a microscopic mechanism of quantum condensates (Bose-Einstein condensation, superfluidity, and superconductivity). Reviews of first edition: “The goals of this interesting book are to derive a general principle of dynamic transitions for dissipative systems and to establish a systematic dynamic transition theory for a wide range of problems in the nonlinear sciences. … The intended audience for this book includes students and researchers working on nonlinear problems in physics, meteorology, oceanography, biology, chemistry, and the social sciences.” (Carlo Bianca, Mathematical Reviews, December, 2014) “This is a clearly written book on numerous types of phase transitions taken in a broad sense when a dynamical dissipative system transforms from one physical state into another. … The book is a very useful literature not only for the professionals in the field of dynamic systems and phase transitions but also for graduate students due to its interdisciplinary coverage and state-of-the-art level.” (Vladimir adež, zbMATH, Vol. 1285, 2014).

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