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Critical Transitions in Nature and Society (Princeton ...  
This book offers a comprehensive introduction to critical transitions in complex systems--the radical changes that happen at tipping points when thresholds are passed. Marten Scheffer accessibly describes the dynamical systems theory behind How do we explain the remarkably abrupt changes that sometimes occur in nature and society--and can we predict why and when they happen?

(PDF) Marten Scheffer, Critical Transitions in Nature and ...  
Critical transitions in experimental and theoretical systems can be anticipated on the basis of specific

warning signs, raising the prospect that it might also be possible to predict future real ...

Flickering gives early warning signals of a critical ...

Critical transitions lead to state shifts, which abruptly override trends and produce unanticipated biotic effects.

Critical Transitions in Nature and Society | Princeton ...

Critical transitions and resilience are powerful explanatory tools in ecology today, and it is significant that Scheffer, the leading expert in the applications of critical transitions in ecology, has written a monograph in this area.

Phase transition - Wikipedia

Offers an introduction to critical transitions in complex systems - the radical changes that happen at tipping points when thresholds are passed. This title describes the dynamical systems theory behind critical transitions, covering catastrophe theory, bifurcations and chaos.

Critical transitions in nature and society

The progression of complex human diseases is associated with critical transitions across dynamical regimes. These transitions often spawn early-warning signals and provide insights into the...

Critical Transitions in Nature and Society

How do we explain the remarkably abrupt changes that sometimes occur in nature and society--and can we predict why and when they happen? This book offers a comprehensive introduction to critical transitions in complex systems--the radical changes that happen at tipping points when thresholds are passed. Marten Scheffer accessibly describes the dynamical systems theory behind critical ...

Critical Transitions in Nature and Society by Marten Scheffer

Critical transitions are to be contrasted with regime shifts that are a direct consequence of large, external shocks. ... Our goal is to find statistical methods to anticipate epidemics.

Early-warning signals for critical transitions | Nature

Critical transitions and resilience are powerful explanatory tools in ecology today, and it is significant that Scheffer, the leading expert in the applications of critical transitions in ecology, has written a monograph in this area.

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RNA phase transitions in repeat expansion disorders. Jain A(1)(2), Vale RD(1)(2). Author information: (1)Department of Cellular and Molecular Pharmacology and Howard Hughes Medical Institute, University of California, San Francisco, California 94158, USA.

Critical Transitions in Nature and Society - Marten ...

Critical transitions in nature and society - YouTube A Grantham Special Lecture by Professor Marten Scheffer, Center for Water and Climate Wageningen University, the Netherlands. For more...

Quantum critical point - Wikipedia

Marten Scheffer accessibly describes the dynamical systems theory behind critical transitions, covering catastrophe theory, bifurcations, chaos, and more. He gives examples of critical transitions in lakes, oceans, terrestrial ecosystems, climate, evolution, and human societies.

RNA phase transitions in repeat expansion disorders.

The term phase transition (or phase change) is most commonly used to describe transitions between solid, liquid, and gaseous states of matter, as well as plasma in rare cases. A phase of a thermodynamic system and the states of matter have uniform physical properties. During a phase transition of a given medium, certain properties of the medium change, often discontinuously, as a result of the ...

Transitions - The Writing Center

A quantum critical point is a point in the phase diagram of a material where a continuous phase transition takes place at absolute zero. A quantum critical point is typically achieved by a continuous suppression of a nonzero temperature phase transition to zero temperature by the application of a pressure, field, or through doping.

Approaching a state shift in Earth's biosphere | Nature

Evidence of the three-dimensional quantum Hall effect and a magnetic-field-driven quantum phase transition are observed in zirconium pentatelluride crystals. ... Phase transitions and critical ...

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Critical Transitions In Nature And

Critical transitions in cyclic and chaotic systems are less well studied from the point of view of early-warning signals. Such transitions are associated with different classes of bifurcation 10 ...

Three-dimensional quantum Hall effect and metal ... - Nature

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