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Thermodynamics of chaotic systems An introduction Christian Beck and Friedrich Schlägl Institute for Theoretical Physics, University of Aachen

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Thermodynamics of Chaotic Systems: An Introduction (Cambridge Nonlinear Science Series) This book deals with the various thermodynamic concepts used for the analysis of nonlinear dynamical systems. The most i...

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They can be used to derive the main thermodynamic relationships for chaotic systems. Part IV "Dynamical analysis of chaotic systems" deals with the time evolution of chaotic dynamical systems.

**Thermodynamics of Chaotic Systems: An Introduction**

Christian Beck and Friedrich Schlogl, Cambridge University Press, Cambridge, 1993

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Thermodynamics, Information Theory, and Chaotic Systems Appendix 02: Brief Review of Equilibrium Thermodynamics February 14, 2011 This appendix introduces the concept of thermodynamic systems and digresses on the issues: How information systems and dynamical systems are related to Thermodynamics.

**ME (PHY) 597B Thermodynamics, Information Theory, and**

The equations uniquely determine the system state at time  $t+dt$  as a function of its previous state at time  $t$ . The state of the system is defined by a set of coordinates  $X$  taking their values in the so-called phase space [1]. These coordinates are for instance the positions and velocities of the particles of a mechanical system.

## **CHAOS, FRACTALS AND THERMODYNAMICS**

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Chaos, ergodicity, and the thermodynamics of lower-dimensional time-independent Hamiltonian systems  
Henry E. Kandrup\* Department of Astronomy, Department of Physics, and Institute for Fundamental Theory,  
University of Florida, Gainesville,

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H. Shigematsu ~ Received December 10, 1990," final August 13, 1991 Fluctuations in the divergence of  
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### **Phase transitions in thermodynamics of a local lyapunov**

theory and its modern developments in the theory of chaos and our current understanding of the dynamical  
bases of nonequilibrium thermodynamics. Poincaré is the founding father of modern dynamical systems  
theory by his monumental work on celestial mechanics.

### **From dynamical systems theory to nonequilibrium thermodynamics**

control of thermodynamic systems. This suggests a way to analyze a system in terms of its agency—its  
ability to sense, reflect, decide, and act effectively in an unpredictable environment.

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