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## Statistical Thermodynamics of Nonequilibrium Processes

## By Joel Keizer

Springer. Hardcover. Condition: New. 506 pages. Dimensions: 9.4in. x 6.3in. x 1.4in. This book provides an introduction to the modern statistical theory of nonequilibrium thermodynamics, based on a synthesis of the statistical thermodynamics of Onsager and the kinetic molecular theory of Boltzmann. Topics featured in the initial chapters include an introduction to stochastic processes and Brownian motion, the linear statistical theory of irreversible process, fluctuations in chemical reactions, and the Boltzmann equation. Using the authors canonical representation for the rates of elementary processes, the book develops the statistical thermodynamics of molecular noise arising from chemical reactions, electrochemical process, ion channels in membranes, hydrodynamics, and molecular collisions are treated in a unified way. The final chapters focus on the way in which nonlinear molecular mechanisms give rise to steady states, critical points, oscillations, and chaos, including the thermodynamic theory of steady states and its relationship to molecular fluctuations and linear stability. Broadly applicable to dynamical problems in chemistry, physics, and biophysics, the book should be accessible to graduate students, faculty, and other researchers in the physical sciences and engineering. This item ships from multiple locations. Your...



## Reviews

This book might be worth a read, and superior to other. Of course, it really is engage in, still an interesting and amazing literature. It is extremely difficult to leave it before concluding, once you begin to read the book.

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It is an incredible publication i actually have actually go through. I really could comprehended everything out of this composed e pdf. Its been designed in an exceedingly simple way and is particularly just following i finished reading this publication where actually changed me, alter the way i think. -- Prof. Colton Jakubowski IV

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