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Thermodynamics of Information Processing in Small Systems



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**Maria Maleshkova, Niklas Kühl, Philipp
Jussen**



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Thermodynamics of Information Processing in Small Systems Takahiro Sagawa, 2012-09-14 This thesis presents a general theory of nonequilibrium thermodynamics for information processing Ever since Maxwell's demon was proposed in the nineteenth century the relationship between thermodynamics and information has attracted much attention because it concerns the foundation of the second law of thermodynamics From the modern point of view Maxwell's demon is formulated as an information processing device that performs measurement and feedback at the level of thermal fluctuations By unifying information theory measurement theory and the recently developed theory of nonequilibrium statistical mechanics the author has constructed a theory of information thermodynamics in which information contents and thermodynamic variables are treated on an equal footing In particular the maximum work that can be extracted by the demon and the minimum work that is needed for measurement and information erasure by the demon has been determined Additionally generalizations of nonequilibrium relations such as a Jarzynski equality for classical stochastic systems in the presence of feedback control have been derived One of the generalized equalities has recently been verified experimentally by using sub micron colloidal particles The results obtained serve as fundamental principles for information processing in small thermodynamic systems and are applicable to nanomachines and nanodevices

Experiments on the Thermodynamics of Information Processing Momčilo Gavrilov, 2017-08-01 This thesis reveals how the feedback trap technique developed to trap small objects for biophysical measurement could be adapted for the quantitative study of the thermodynamic properties of small systems The experiments in this thesis are related to Maxwell's demon a hypothetical intelligent neat fingered being that uses information to extract work from heat apparently creating a perpetual motion machine The second law of thermodynamics should make that impossible but how That question has stymied physicists and provoked debate for a century and a half The experiments in this thesis confirm a hypothesis proposed by Rolf Landauer over fifty years ago that Maxwell's demon would need to erase information and that erasing information resetting the measuring device to a standard starting state requires dissipating as much energy as is gained For his thesis work the author used a feedback trap to study the motion of colloidal particles in virtual potentials that may be manipulated arbitrarily The feedback trap confines a freely diffusing particle in liquid by periodically measuring its position and applying an electric field to move it back to the origin

Crossroad of Maxwell Demon Xavier Bouju, Christian Joachim, 2024-07-22 Written by leading experts in this field this proceedings volume originates from a workshop held in Toulouse on March 1 2 2023 organized by the ESIM European project Energy Storage Inside Molecules The book explores the intersection and convergence of various perspectives disciplines and research areas related to a modern version of the Maxwell demon at the nanoscale It presents interdisciplinary perspectives on topics such as intramolecular thermodynamics and single molecule motive power and overviews the realm of single objects be it atoms or molecules while also emphasizing on theoretical and experimental approaches with or without the presence of supporting

surfaces. Notably, this comprehensive collection represents the first instance where such intertwined contributions on diverse versions of the Maxwell demon are discussed within the context of the nanoscale. It is of great use to graduate students, postdoctoral fellows, and researchers who are interested in single molecule mechanics.

Information Thermodynamics on Causal Networks and its Application to Biochemical Signal Transduction Sosuke Ito, 2016-07-16. In this book, the author presents a general formalism of nonequilibrium thermodynamics with complex information flows induced by interactions among multiple fluctuating systems. The author has generalized stochastic thermodynamics with information by using a graphical theory. Characterizing nonequilibrium dynamics by causal networks, he has obtained a novel generalization of the second law of thermodynamics with information that is applicable to quite a broad class of stochastic dynamics, such as information transfer between multiple Brownian particles, an autonomous biochemical reaction, and complex dynamics with a time-delayed feedback control. This study can produce further progress in the study of Maxwell's demon for special cases. As an application to these results, information transmission and thermodynamic dissipation in biochemical signal transduction are discussed. The findings presented here can open up a novel biophysical approach to understanding information processing in living systems.

Perspectives on Statistical Thermodynamics Yoshitsugu Oono, 2017-12-14. This original text develops a deep conceptual understanding of thermal physics and highlights the important links between statistical physics and classical thermodynamics. It examines how thermal physics fits within physics as a whole and is perfect for undergraduate and graduate students and researchers interested in a fresh approach to the subject.

Fluctuation Theorems under Divergent Entropy Production and their Applications for Fundamental Problems in Statistical Physics Yûto Murashita, 2022-01-20. This book presents the derivation of the fluctuation theorems with divergent entropy production and their application to fundamental problems in statistical physics. It explores the two basic aspects of the fluctuation theorems: i) Applicability in extreme situations with divergent entropy production, concluding that the fluctuation theorems remain valid under the notion of absolute irreversibility; and ii) utility in the investigation of classical enigmas in the framework of statistical physics, i.e. Gibbs and Loschmidt paradoxes. The book offers readers an overview of the research in fundamental statistical physics. Firstly, it briefly but skillfully reviews the modern development of fluctuation theorems to found the key theme of the book. Secondly, it concisely discusses historical issues of statistical physics in chronological order along with the key literature in the field. They help readers easily follow the key developments in the fundamental research of statistical physics.

Statistical Mechanics for Athermal Fluctuation Kiyoshi Kanazawa, 2017-11-20. The author investigates athermal fluctuation from the viewpoints of statistical mechanics in this thesis. Stochastic methods are theoretically very powerful in describing fluctuation of thermodynamic quantities in small systems on the level of a single trajectory and have been recently developed on the basis of stochastic thermodynamics. This thesis proposes for the first time a systematic framework to describe athermal fluctuation, developing stochastic thermodynamics for non-Gaussian processes while thermal fluctuations

are mainly addressed from the viewpoint of Gaussian stochastic processes in most of the conventional studies First the book provides an elementary introduction to the stochastic processes and stochastic thermodynamics The author derives a Langevin like equation with non Gaussian noise as a minimal stochastic model for athermal systems and its analytical solution by developing systematic expansions is shown as the main result Furthermore the author shows a thermodynamic framework for such non Gaussian fluctuations and studies some thermodynamics phenomena i e heat conduction and energy pumping which shows distinct characteristics from conventional thermodynamics The theory introduced in the book would be a systematic foundation to describe dynamics of athermal fluctuation quantitatively and to analyze their thermodynamic properties on the basis of stochastic methods Smart Service Management Maria Maleshkova, Niklas Kühl, Philipp

Jussen, 2021-01-26 This book presents the main theoretical foundations behind smart services as well as specific guidelines and practically proven methods on how to design them Furthermore it gives an overview of the possible implementation architectures and shows how the designed smart services can be realized with specific technologies Finally it provides four specific use cases that show how smart services have been realized in practice and what impact they have within the businesses The first part of the book defines the basic concepts and aims to establish a shared understanding of terms such as smart services service systems smart service systems or cyber physical systems On this basis it provides an analysis of existing work and includes insights on how an organization incorporating smart services could enhance and adjust their management and business processes The second part on the design of smart services elaborates on what constitutes a successful smart service and describes experiences in the area of interdisciplinary teams strategic partnerships the overall service systems and the common data basis In the third part technical reference architectures are presented in detail encompassing topics on the design of digital twins in cyber physical systems the communication between entities and sensors in the age of Industry 4.0 as well as data management and integration The fourth part then highlights a number of analytical possibilities that can be realized and that can constitute or be part of smart services including machine learning and artificial intelligence methods Finally the applicability of the introduced design and development method is demonstrated by considering specific real world use cases These include services in the industrial and mobility sector which were developed in direct cooperation with industry partners The main target audience of this book is industry focused readers especially practitioners from industry who are involved in supporting and managing digital business These include professionals working in business development product management strategy and development ranging from middle management to Chief Digital Officers It conveys all the basics needed for developing smart services and successfully placing them on the market by explaining technical aspects as well as showcasing practical use cases *Thermodynamics and Synchronization in Open Quantum Systems* Gonzalo Manzano Paule, 2018-07-04 This book explores some of the connections between dissipative and quantum effects from a theoretical point of view It focuses on three main topics the relation between synchronization and

quantum correlations the thermodynamical properties of fluctuations and the performance of quantum thermal machines Dissipation effects have a profound impact on the behavior and properties of quantum systems and the unavoidable interaction with the surrounding environment with which systems continuously exchange information energy angular momentum and matter is ultimately responsible for decoherence phenomena and the emergence of classical behavior However there is a wide intermediate regime in which the interplay between dissipative and quantum effects gives rise to a plethora of rich and striking phenomena that has just started to be understood In addition the recent breakthrough techniques in controlling and manipulating quantum systems in the laboratory have made this phenomenology accessible in experiments and potentially applicable

Single Molecule Biophysics and Poisson Process Approach to Statistical Mechanics Susanta K Sarkar, 2016-04-01 This is an overview of single molecule physics the study of both equilibrium and non equilibrium properties at the single molecule level It begins with an introduction to this fascinating science and includes a chapter on how to build the most popular instrument for single molecule biophysics the total internal reflection fluorescence TIRF microscope It concludes with the Poisson process approach to statistical mechanics explaining how to relate the process to diverse areas and see how data analysis and error bars are integral parts of science

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