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Entropy and Non-Equilibrium Statistical Mechanics Antonio M. Scarfone, Sumiyoshi Abe, Róbert Kovács, 2020-12-15
Nonequilibrium statistical mechanics has a long history featuring diverse aspects. It has been a major research field in physics and will remain so in the future. Even regarding the concept of entropy, there exists a longstanding problem concerning its definition for a system in a state far from equilibrium. In this Special Issue, we offered the possibility to discuss and present up-to-date problems that were not necessarily restricted to statistical mechanics. Theoretical and experimental papers are both presented in addition to unifying research works. As the entropy itself is the central element of nonequilibrium processes, papers discuss various formulations of the second law and its consequences. In this Special Issue, recent progress in kinetic approaches to hydrodynamics, rational extended thermodynamics, entropy in a strongly nonequilibrium stationary state, and related topics are reported as both review articles as well as original research works.

Entropy, Large Deviations, and Statistical Mechanics Richard Steven Ellis, 1985 [The Statistical Foundations Of Entropy](#) John D. Ramshaw, 2017-11-24
This book presents an innovative unified approach to the statistical foundations of entropy and the fundamentals of equilibrium statistical mechanics. These intimately related subjects are often developed in a fragmented historical manner which obscures the essential simplicity of their logical structure. In contrast, this book critically reassesses and systematically reorganizes the basic concepts into a simpler sequential framework which reveals more clearly their logical relationships. The inherent indistinguishability of identical particles is emphasized, and the resulting unification of classical and quantum statistics is discussed in detail. The discussion is focused entirely on fundamental concepts so applications are omitted. The book is written at the advanced undergraduate or beginning graduate level and will be useful as a concise supplement to conventional books and courses in statistical mechanics, thermal physics, and thermodynamics. It is also suitable for self-study by those seeking a deeper and more detailed analysis of the fundamentals. **Entropy Beyond the Second Law** Phil Attard, 2018-05-23
The Second Law of Thermodynamics, that entropy increases, is arguably the most fundamental law of nature. And yet for some, entropy itself is a mystery, the cause of confusion and misunderstanding. How can it be that something so fundamental and universal be so hard to grasp? How can it have happened that thoughtful people appreciate the significance and universal applicability of the Second Law without understanding the nature of entropy, its sole concern? This book presents a coherent formulation of all aspects of thermodynamics and statistical mechanics with entropy as the unifying theme. This includes formulating equilibrium theory from first principles and explaining the role of the Second Law in establishing the equilibrium state. It also includes establishing the foundations of non-equilibrium theory by generalizing the concept of entropy in an appropriate way. Finally, it addresses the relationship between classical and quantum statistical mechanics by invoking the collapse of the wave function into entropy states. A secondary purpose is to increase the understanding of entropy and the Second Law and to correct misapprehensions and errors that have arisen over

the years By consolidating these approaches into a coherent and self contained framework it is intended to improve the understanding of this fundamental and fascinating area of physics Thermodynamics and statistical mechanics are such important subjects that students academics and researchers need to have the fundamental concepts clearly and concisely presented as simply as possible and as part of a unified whole To this end the book motivates the mathematical theorems and derivations with detailed physical explanation applications and concrete examples

Entropy and the Second Law Arieh Ben-Naim, 2012-05-15 This book presents a clear and readable description of one of the most mysterious concepts of physics Entropy It contains a self learning kit that guides the reader in understanding the concepts of entropy In the first part the reader is asked to play the familiar twenty Question game Once the reader feels comfortable with playing this game and acquires proficiency in playing the game effectively intelligently he or she will be able to capture the elusive and used to be mysterious concept of entropy There will be no more speculative or arbitrary interpretations nor older or modern views of entropy This book will guide readers in choosing their own interpretation of entropy Video intro on the Bestsellers on Entropy by Arieh Ben Naim <https://www.youtube.com/watch?v=S5fOsKyOlHw> Request Inspection Copy Contents Introduction From Heat Engines to Disorder Information Spreading Freedom and More Forget about Entropy for a While Let us Go and Play iGames The Astounding Emergence of the Entropy of a Classical Ideal Gas out of Shannon's Measure of Information Examples and Their Interpretations Challenges for any Descriptor of Entropy Finally Let Us Discuss the Most Mysterious Second Law of Thermodynamics Readership Undergraduate and graduate students in chemistry and physics academics and lay persons

Entropy Beyond the Second Law (Second Edition) Phil Attard, 2023-04-28 Entropy is fundamental to the physical universe and its applications beyond the Second Law of Thermodynamics to classical time dependent systems and to quantum condensed matter lie at the frontiers of science

Maximum Entropy in Action Brian Buck, Vincent A. Macaulay, 1991 This book is a collection of introductory interdisciplinary articles and lectures covering the fundamentals of the maximum entropy approach a powerful new technique that provides a much needed extension of the established principles of rational inference in the sciences Maximum entropy allows the interpretation of incomplete and noisy data providing a description of the underlying physical systems It has found application in both practical and theoretical studies ranging from image enhancement to nuclear physics and from statistical mechanics to economics The work explores these applications with specific problems of data analysis taken from the physical sciences It will interest all physical scientists who deal with data and its interpretation including statisticians and statistical physicists

Entropy, Large Deviations, and Statistical Mechanics R.S. Ellis, 1985-06-19 This book has two main topics large deviations and equilibrium statistical mechanics I hope to convince the reader that these topics have many points of contact and that in being treated together they enrich each other Entropy in its various guises is their common core The large deviation theory which is developed in this book focuses upon convergence properties of certain stochastic systems An elementary example is

the weak law of large numbers For each positive ϵ $P(|S_n| \geq n\epsilon)$ converges to zero as $n \rightarrow \infty$ where S_n is the n th partial sum of independent identically distributed random variables with zero mean Large deviation theory shows that if the random variables are exponentially bounded then the probabilities converge to zero exponentially fast as $n \rightarrow \infty$ The exponential decay allows one to prove the stronger property of almost sure convergence $S_n/n \rightarrow 0$ a.s This example will be generalized extensively in the book We will treat a large class of stochastic systems which involve both independent and dependent random variables and which have the following features probabilities converge to zero exponentially fast as the size of the system increases the exponential decay leads to strong convergence properties of the system The most fascinating aspect of the theory is that the exponential decay rates are computable in terms of entropy functions This identification between entropy and decay rates of large deviation probabilities enhances the theory significantly

Entropy and Non-Equilibrium Statistical Mechanics Antonio M. Scarfone, Sumiyoshi Abe, Róbert Kovács, 2020 Nonequilibrium statistical mechanics has a long history featuring diverse aspects It has been a major research field in physics and will remain so in the future Even regarding the concept of entropy there exists a longstanding problem concerning its definition for a system in a state far from equilibrium In this Special Issue we offered the possibility to discuss and present up to date problems that were not necessarily restricted to statistical mechanics Theoretical and experimental papers are both presented in addition to unifying research works As the entropy itself is the central element of nonequilibrium processes papers discuss various formulations of the second law and its consequences In this Special Issue recent progress in kinetic approaches to hydrodynamics rational extended thermodynamics entropy in a strongly nonequilibrium stationary state and related topics are reported as both review articles as well as original research works

Entropy, Large Deviations, and Statistical Mechanics, 2006

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