

Maxwell S Demon 2 Entropy Classical And Quantum In

Frontiers of Nonequilibrium Statistical Physics Gerald T. Moore, Marlan O. Scully. 2012-12-06 The four-week period from May 20 to June 16, 1984 was an intensive period of advanced study on the foundations and frontiers of nonequilibrium statistical physics (NSP). During the first two weeks of this period, an advanced-study course on the Foundations of NSP was conducted in Albuquerque under the sponsorship of the University of New Mexico Center for High-Technology Materials. This was followed by a two-week NATO Advanced Study Institute on the Frontiers of NSP in Santa Fe under the same directorship. Many students attended both meetings. This book comprises proceedings based on those lectures and covering a broad spectrum of topics in NSP ranging from basic problems in quantum measurement theory to analogies between lasers and Darwinian evolution. The various types of quantum distribution functions and their uses are treated by several authors. Other tools of NSP, such as Langevin equations, Fokker-Planck equations, and master equations, are developed and applied to areas such as laser physics, plasma physics, Brownian motion, and hydrodynamic instabilities. The properties and experimental detection of squeezed states and antibunching are described, as well as experimental tests of the violation of Bell's inequality. Information theory, mean-field theory, reservoir theory, entropy maximization, and even a novel nonlinear generalization of quantum mechanics are used to discuss nonequilibrium phenomena and the approach toward thermodynamic equilibrium.

Nanoscale Phenomena Zikang Tang, Ping Sheng. 2007-11-22 This book collects selected lectures from the Third Workshop of the Croucher Advanced Study Institute on Nano Science and Technology, and showcases contributions from world-renowned researchers. The book presents in-depth articles on the latest developments in nanomaterials and nanotechnology, and provides a cross-disciplinary perspective covering physics and biophysics, chemistry, materials science, and engineering.

Science and Information Theory Leon Brillouin. 2013-07-17 Geared toward upper-level undergraduates and graduate students, this classic resource by a giant of 20th-century mathematics applies principles of information theory to Maxwell's demon, thermodynamics, and measurement problems. 1962 edition.

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.

The Demon in the Machine Paul Davies. 2019-01-31 'A gripping new drama in science ... if you want to understand how the concept of life is changing, read this' Professor Andrew Briggs, University of Oxford When Darwin set out to explain the origin of species, he made no attempt to answer the deeper question: what is life? For generations, scientists have struggled to make sense of this fundamental question. Life really does look

like magic: even a humble bacterium accomplishes things so dazzling that no human engineer can match it. And yet, huge advances in molecular biology over the past few decades have served only to deepen the mystery. So can life be explained by known physics and chemistry, or do we need something fundamentally new? In this penetrating and wide-ranging new analysis, world-renowned physicist and science communicator Paul Davies searches for answers in a field so new and fast-moving that it lacks a name, a domain where computing, chemistry, quantum physics and nanotechnology intersect. At the heart of these diverse fields, Davies explains, is the concept of information: a quantity with the power to unify biology with physics, transform technology and medicine, and even to illuminate the age-old question of whether we are alone in the universe. From life's murky origins to the microscopic engines that run the cells of our bodies, *The Demon in the Machine* is a breath-taking journey across the landscape of physics, biology, logic and computing. Weaving together cancer and consciousness, two-headed worms and bird navigation, Davies reveals how biological organisms garner and process information to conjure order out of chaos, opening a window on the secret of life itself.

Foundations of Statistical Mechanics O. Penrose.2016-09-21 International Series of Monographs in Natural Philosophy, Volume 22: Foundations of Statistical Mechanics: A Deductive Treatment presents the main approaches to the basic problems of statistical mechanics. This book examines the theory that provides explicit recognition to the limitations on one's powers of observation. Organized into six chapters, this volume begins with an overview of the main physical assumptions and their idealization in the form of postulates. This text then examines the consequences of these postulates that culminate in a derivation of the fundamental formula for calculating probabilities in terms of dynamic quantities. Other chapters provide a careful analysis of the significant notion of entropy, which shows the links between thermodynamics and statistical mechanics and also between communication theory and statistical mechanics. The final chapter deals with the thermodynamic concept of entropy. This book is intended to be suitable for students of theoretical physics. Probability theorists, statisticians, and philosophers will also find this book useful.

The Information James Gleick.2011-03-01 From the bestselling author of the acclaimed *Chaos* and *Genius* comes a thoughtful and provocative exploration of the big ideas of the modern era: Information, communication, and information theory. Acclaimed science writer James Gleick presents an eye-opening vision of how our relationship to information has transformed the very nature of human consciousness. A fascinating intellectual journey through the history of communication and information, from the language of Africa's talking drums to the invention of written alphabets; from the electronic transmission of code to the origins of information theory, into the new information age and the current deluge of news, tweets, images, and blogs. Along the way, Gleick profiles key innovators, including Charles Babbage, Ada Lovelace, Samuel Morse, and Claude Shannon, and reveals how our understanding of information is transforming not only how we look at the world, but how we live. A New York Times Notable Book A Los Angeles Times and Cleveland Plain Dealer Best Book of the Year Winner of the PEN/E. O. Wilson Literary Science Writing Award

A Course In Thermodynamics Joseph Kestin.1979-06-01

Brownian Ratchets David Cubero,Ferruccio Renzoni.2016-01-11 Illustrating the development of Brownian ratchets, from their foundations, to their role in the description of life at the molecular scale and in the design of artificial nano-machinery, this text will appeal to both advanced graduates and researchers entering the field. Providing a self-contained introduction to Brownian ratchets, devices which rectify microscopic fluctuations, Part I avoids technicalities and sets out the broad range of physical systems where the concept of ratchets is relevant. Part II supplies a single source for a complete and modern theoretical analysis of ratchets in regimes such as classical vs quantum and stochastic vs deterministic, and in Part III readers are guided through experimental developments in different physical systems, each highlighting a specific unique feature of ratchets. The thorough and systematic approach to the topic ensures that this book provides a complete guide to Brownian ratchets for newcomers and established researchers in physics, biology and biochemistry.

Thermodynamics in the Quantum Regime Felix Binder, Luis A. Correa, Christian Gogolin, Janet Anders, Gerardo Adesso. 2019-04-01 Quantum Thermodynamics is a novel research field which explores the emergence of thermodynamics from quantum theory and addresses thermodynamic phenomena which appear in finite-size, non-equilibrium and finite-time contexts. Blending together elements from open quantum systems, statistical mechanics, quantum many-body physics, and quantum information theory, it pinpoints thermodynamic advantages and barriers emerging from genuinely quantum properties such as quantum coherence and correlations. Owing to recent experimental efforts, the field is moving quickly towards practical applications, such as nano-scale heat devices, or thermodynamically optimised protocols for emergent quantum technologies. Starting from the basics, the present volume reviews some of the most recent developments, as well as some of the most important open problems in quantum thermodynamics. The self-contained chapters provide concise and topical introductions to researchers who are new to the field. Experts will find them useful as a reference for the current state-of-the-art. In six sections the book covers topics such as quantum heat engines and refrigerators, fluctuation theorems, the emergence of thermodynamic equilibrium, thermodynamics of strongly coupled systems, as well as various information theoretic approaches including Landauer's principle and thermal operations. It concludes with a section dedicated to recent quantum thermodynamics experiments and experimental prospects on a variety of platforms ranging from cold atoms to photonic systems, and NV centres.

Molecular Storms Liam Graham. 2023-11-02 "Following in the footsteps of Stephen Hawking's 'A brief history of time' and Simon Singh's 'Fermat's Last Theorem' this exceptionally accessible book will leave you marveled at the wonders of the world and, if you didn't listen to your science teachers, wishing you had. Graham writes with the mind of a physicist and the soul of a poet." Nicki Hayes, CCO, The Communications Practice, author of *First Aid for Feelings*. "Only a few writers have managed to turn the highly technical jargon of science into language accessible for interested lay readers. Isaac Asimov showed us how it could be done, and Carl Zimmer and Brian Greene are continuing today. In *Molecular Storms*, his first book, Liam Graham has shown that he has the essential quality required to join this group, a love of first learning then explaining how the universe works. David Deamer, Professor of Biomolecular Engineering, University of California, Santa Cruz, author of *Assembling Life*. Why is the universe the way it is? Wherever we look, we find ordered structures: from stars to planets to living cells. This book shows that the same driving force is behind structure everywhere: the incessant random motion of the components of matter. Physicists call it thermal noise. Let's call it the molecular storm. This storm drives the fusion reactions that make stars shine. It drives whirlpools and currents in atmospheres and oceans. It spins and distorts molecules until they are in the right orientation to react and form new substances. In living cells, it drives proteins to fold and molecules to self-assemble. It is behind every detail of the astonishing molecular machines that control cellular processes. Using cutting-edge research, "Molecular Storms" takes us on a dazzling journey from the early universe to the interior of the smallest living things. There, in a nanoscale world of biological devices, it explains the physics behind the chemical system which we call Life. Whether you're someone with a general interest in science or a student looking to add context to your studies, this book is for you. *Molecular Storms* is an accessible and captivating read that will deepen your appreciation of the power of science to explain the world.

A Student's Guide to Entropy Don S. Lemons. 2013-08-29 Striving to explore the subject in as simple a manner as possible, this book helps readers understand the elusive concept of entropy. Innovative aspects of the book include the construction of statistical entropy from desired properties, the derivation of the entropy of classical systems from purely classical assumptions, and a statistical thermodynamics approach to the ideal Fermi and ideal Bose gases. Derivations are worked through step-by-step and important applications are highlighted in over 20 worked examples. Around 50 end-of-chapter exercises test readers' understanding. The book also features a glossary giving definitions for all essential terms, a time line showing important developments, and list of books for further study. It is an ideal supplement to undergraduate courses in physics, engineering, chemistry

and mathematics.

Bedeviled Jimena Canales.2022-08-09 How scientists through the ages have conducted thought experiments using imaginary entities—demons—to test the laws of nature and push the frontiers of what is possible Science may be known for banishing the demons of superstition from the modern world. Yet just as the demon-haunted world was being exorcized by the enlightening power of reason, a new kind of demon mischievously materialized in the scientific imagination itself. Scientists began to employ hypothetical beings to perform certain roles in thought experiments—experiments that can only be done in the imagination—and these impish assistants helped scientists achieve major breakthroughs that pushed forward the frontiers of science and technology. Spanning four centuries of discovery—from René Descartes, whose demon could hijack sensorial reality, to James Clerk Maxwell, whose molecular-sized demon deftly broke the second law of thermodynamics, to Darwin, Einstein, Feynman, and beyond—Jimena Canales tells a shadow history of science and the demons that bedevil it. She reveals how the greatest scientific thinkers used demons to explore problems, test the limits of what is possible, and better understand nature. Their imaginary familiars helped unlock the secrets of entropy, heredity, relativity, quantum mechanics, and other scientific wonders—and continue to inspire breakthroughs in the realms of computer science, artificial intelligence, and economics today. The world may no longer be haunted as it once was, but the demons of the scientific imagination are alive and well, continuing to play a vital role in scientists' efforts to explore the unknown and make the impossible real.

The Road to Maxwell's Demon Meir Hemmo,Orly R. Shenker.2012-09-20 A philosophical perspective to statistical mechanics for graduate students and researchers in the foundations and philosophy of physics.

Computation and Logic in the Real World S. Barry Cooper.2007-06-11 This book constitutes the refereed proceedings of the Third International Conference on Computability in Europe, CiE 2007, held in Sienna, Italy, in June 2007. The 50 revised full papers presented together with 36 invited papers were carefully reviewed and selected from 167 submissions.

Molecular Driving Forces Ken Dill,Sarina Bromberg.2010-10-21 Molecular Driving Forces, Second Edition E-book is an introductory statistical thermodynamics text that describes the principles and forces that drive chemical and biological processes. It demonstrates how the complex behaviors of molecules can result from a few simple physical processes, and how simple models provide surprisingly accurate insights into the workings of the molecular world. Widely adopted in its First Edition, Molecular Driving Forces is regarded by teachers and students as an accessible textbook that illuminates underlying principles and concepts. The Second Edition includes two brand new chapters: (1) Microscopic Dynamics introduces single molecule experiments; and (2) Molecular Machines considers how nanoscale machines and engines work. The Logic of Thermodynamics has been expanded to its own chapter and now covers heat, work, processes, pathways, and cycles. New practical applications, examples, and end-of-chapter questions are integrated throughout the revised and updated text, exploring topics in biology, environmental and energy science, and nanotechnology. Written in a clear and reader-friendly style, the book provides an excellent introduction to the subject for novices while remaining a valuable resource for experts.

Maxwell's Demon Harvey S. Leff,Andrew F. Rex.2014-07-14 About 120 years ago, James Clerk Maxwell introduced his now legendary hypothetical demon as a challenge to the integrity of the second law of thermodynamics. Fascination with the demon persisted throughout the development of statistical and quantum physics, information theory, and computer science--and linkages have been established between Maxwell's demon and each of these disciplines. The demon's seductive quality makes it appealing to physical scientists, engineers, computer scientists, biologists, psychologists, and historians and philosophers of science. Until now its important source material has been scattered throughout diverse journals. This book brings under one cover twenty-five reprints, including seminal works by Maxwell and William Thomson; historical reviews by Martin Klein, Edward Daub,

and Peter Heimann; information theoretic contributions by Leo Szilard, Leon Brillouin, Dennis Gabor, and Jerome Rothstein; and innovations by Rolf Landauer and Charles Bennett illustrating linkages with the limits of computation. An introductory chapter summarizes the demon's life, from Maxwell's illustration of the second law's statistical nature to the most recent exorcism of the demon based on a need periodically to erase its memory. An annotated chronological bibliography is included. Originally published in 1990. The Princeton Legacy Library uses the latest print-on-demand technology to again make available previously out-of-print books from the distinguished backlist of Princeton University Press. These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions. The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905.

Information Theory Bertrand Duplantier, Vincent Rivasseau. 2021-07-19 This eighteenth volume in the Poincaré Seminar Series provides a thorough description of Information Theory and some of its most active areas, in particular, its relation to thermodynamics at the nanoscale and the Maxwell Demon, and the emergence of quantum computation and of its counterpart, quantum verification. It also includes two introductory tutorials, one on the fundamental relation between thermodynamics and information theory, and a primer on Shannon's entropy and information theory. The book offers a unique and manifold perspective on recent mathematical and physical developments in this field.

Quantum Optics and Nanophotonics Claude Fabre, Vahid Sandoghdar, Nicolas Treps, Leticia F. Cugliandolo. 2017 Over the last few decades, the quantum aspects of light have been explored and major progress has been made in understanding the specific quantum aspects of the interaction between light and matter. The domain of classical optics has recently seen many exciting new developments, especially in the areas of nano-optics, nano-antennas, metamaterials, and optical cloaking. Approaches based on single-molecule detection and plasmonics have provided new avenues for exploring light-matter interaction at the nanometre scale. All these topics have in common a trend to consider and use smaller and smaller objects, down to the micrometre, nanometre, and even atomic range. The summer school held in Les Houches in July 2013 treated all these subjects lying at the frontier between nanophotonics and quantum optics, in a series of lectures given by world experts

Thermodynamics and Control of Open Quantum Systems Gershon Kurizki, Abraham G. Kofman. 2022-01-13 The control of open quantum systems and their associated quantum thermodynamic properties is a topic of growing importance in modern quantum physics and quantum chemistry research. This unique and self-contained book presents a unifying perspective of such open quantum systems, first describing the fundamental theory behind these formidably complex systems, before introducing the models and techniques that are employed to control their quantum thermodynamics processes. A detailed discussion of real quantum devices is also covered, including quantum heat engines and quantum refrigerators. The theory of open quantum systems is developed pedagogically, from first principles, and the book is accessible to graduate students and researchers working in atomic physics, quantum information, condensed matter physics, and quantum chemistry.

Maxwell's Demon and the Golden Apple Randall L. Schweller. 2014-05 Mixing myth, entropy, and Angry Birds, Randall Schweller brings a novel perspective to international studies. Just what exactly will follow the American century? This is the question Randall L. Schweller explores in his provocative assessment of international politics in the twenty-first century. Schweller considers the future of world politics, correlating our reliance on technology and our multitasking, distracted, disorganized lives with a fragmenting world order. He combines the Greek myth of the Golden Apple of Discord, which explains the start of the Trojan War, with a look at the second law of thermodynamics, or entropy. In the coming age," Schweller writes, "disorder will reign supreme as the world succumbs to . . . entropy, an irreversible process of disorganization that governs the direction of all physical changes taking place in the universe." Interweaving his theory of global disorder with issues on the world stage—coupled with a disquisition

on board games and the cell phone app Angry Birds—Schweller’s thesis yields astonishing insights. Maxwell’s Demon and the Golden Apple will appeal to leaders of multinational corporations and government programs as well as instructors of undergraduate courses in international relations.

Research Advances in Quantum Dynamics Paul Bracken.2016-08-24 There continue at present many developments in the area of quantum mechanics and quantum dynamics in particular, of a very fundamental nature, all the way from implications for the foundations of physics to the influence of quantum mechanics on emerging technologies, such as the areas of quantum semiconductors and quantum computing, both of which are very important examples. It is hoped that the papers in this volume will be able to provide a much needed resource for researchers with regard to current fields of research in this dynamic area.

Programming the Universe Seth Lloyd.2007-03-13 Is the universe actually a giant quantum computer? According to Seth Lloyd, the answer is yes. All interactions between particles in the universe, Lloyd explains, convey not only energy but also information—in other words, particles not only collide, they compute. What is the entire universe computing, ultimately? “Its own dynamical evolution,” he says. “As the computation proceeds, reality unfolds.” Programming the Universe, a wonderfully accessible book, presents an original and compelling vision of reality, revealing our world in an entirely new light.

Stochastic Thermodynamics: An Introduction Luca Peliti, Simone Pigolotti.2021-07-06 The first comprehensive graduate-level introduction to stochastic thermodynamics Stochastic thermodynamics is a well-defined subfield of statistical physics that aims to interpret thermodynamic concepts for systems ranging in size from a few to hundreds of nanometers, the behavior of which is inherently random due to thermal fluctuations. This growing field therefore describes the nonequilibrium dynamics of small systems, such as artificial nanodevices and biological molecular machines, which are of increasing scientific and technological relevance. This textbook provides an up-to-date pedagogical introduction to stochastic thermodynamics, guiding readers from basic concepts in statistical physics, probability theory, and thermodynamics to the most recent developments in the field. Gradually building up to more advanced material, the authors consistently prioritize simplicity and clarity over exhaustiveness and focus on the development of readers’ physical insight over mathematical formalism. This approach allows the reader to grow as the book proceeds, helping interested young scientists to enter the field with less effort and to contribute to its ongoing vibrant development. Chapters provide exercises to complement and reinforce learning. Appropriate for graduate students in physics and biophysics, as well as researchers, Stochastic Thermodynamics serves as an excellent initiation to this rapidly evolving field. Emphasizes a pedagogical approach to the subject Highlights connections with the thermodynamics of information Pays special attention to molecular biophysics applications Privileges physical intuition over mathematical formalism Solutions manual available on request for instructors adopting the book in a course

Quantum Information Theory Mark Wilde.2013-04-18 A self-contained, graduate-level textbook that develops from scratch classical results as well as advances of the past decade.

The Routledge Companion to Thought Experiments Michael T Stuart, Yiftach Fehige, James Robert Brown.2017-07-20 Thought experiments are a means of imaginative reasoning that lie at the heart of philosophy, from the pre-Socratics to the modern era, and they also play central roles in a range of fields, from physics to politics. The Routledge Companion to Thought Experiments is an invaluable guide and reference source to this multifaceted subject. Comprising over 30 chapters by a team of international contributors, the Companion covers the following important areas: · the history of thought experiments, from antiquity to the trolley problem and quantum non-locality; · thought experiments in the humanities, arts, and sciences, including ethics, physics, theology, biology, mathematics, economics, and politics; · theories about the nature of thought experiments; · new discussions concerning the impact of experimental philosophy, cross-cultural comparison studies, metaphilosophy, computer simulations,

idealization, dialectics, cognitive science, the artistic nature of thought experiments, and metaphysical issues. This broad ranging Companion goes backwards through history and sideways across disciplines. It also engages with philosophical perspectives from empiricism, rationalism, naturalism, skepticism, pluralism, contextualism, and neo-Kantianism to phenomenology. This volume will be valuable for anyone studying the methods of philosophy or any discipline that employs thought experiments, as well as anyone interested in the power and limits of the mind.

The Demon and the Quantum Robert J. Scully, Marlan O. Scully. 2010-11-15 Eagerly awaited, the new edition of this successful text is now available in paperback. Maxwell's Demon is a character in an 1867 thought experiment by the Scottish physicist James Clerk Maxwell, meant to raise questions about the second law of thermodynamics. This book explains the connection between Maxwell's Demon and the role of the observer and quantum eraser, showing that information science, thermodynamics and quantum physics are closely related. We often hear phrases like quantum weirdness and the strange world of the quantum. A fact that is not so widely appreciated is that quantum mechanics can (and does) shed light on problems such as the Maxwell Demon Paradox of thermodynamics, the seemingly spiritual nature of information, and even, perhaps, new insights into the existence of Mind! The common denominator of all this is the fact that information is a real physical quantity. Information is more than something just in our mind; it is the essence of, and in many ways more general than the concept of entropy. By focusing on entropy, information, and observation, the authors bring a unique perspective to this subject, and offer insight into the strange ways of the quantum which will not only fascinate scientists but lay persons as well. Key features of the new paperback edition: Explains the connection between Maxwell's Demon and the role of the observer Takes a completely new approach to quantum mechanics and quantum information theory which is of interest to students from undergraduate level onwards as well as researchers and lay persons Written by two authors who approach the topic from two different angles and combine both the scholar's and the layperson's perspective in a most interesting and enjoyable fashion Treats central concepts such as entropy, information and intelligence in a comprehensible and entertaining way Includes fresh biographical material on key researchers like Planck, Schrödinger, and others is presented at the beginning of each chapter Mathematical formulae have been removed and replaced by a history of famous Erwin Schrödinger Praise for the previous edition: The Demon and the Quantum is accessible to a large spectrum of readers of PHYSICS TODAY; it is worthwhile reading? Physics Today

Energy and Entropy Harvey S. Leff. 2020-08-26 Energy is typically regarded as understandable, despite its multiple forms of storage and transfer. Entropy, however, is an enigma, in part because of the common view that it represents disorder. That view is flawed and hides entropy's connection with energy. In fact, macroscopic matter stores internal energy, and that matter's entropy is determined by how the energy is stored. Energy and entropy are intimately linked. Energy and Entropy: A Dynamic Duo illuminates connections between energy and entropy for students, teachers, and researchers. Conceptual understanding is emphasised where possible through examples, analogies, figures, and key points. Features: Qualitative demonstration that entropy is linked to spatial and temporal energy spreading, with equilibrium corresponding to the most equitable distribution of energy, which corresponds to maximum entropy Analysis of energy and entropy of matter and photons, with examples ranging from rubber bands, cryogenic cooling, and incandescent lamps to Hawking radiation of black holes Unique coverage of numerical entropy, the 3rd law of thermodynamics, entropic force, dimensionless entropy, free energy, and fluctuations, from Maxwell's demon to Brownian ratchets, plus attempts to violate the second law of thermodynamics

Maxwell's Demon 2 Entropy, Classical and Quantum Information, Computing Harvey Leff, Andrew F. Rex. 2002-12-13 Over 130 years ago, James Clerk Maxwell introduced his hypothetical demon as a challenge to the scope of the second law of thermodynamics. Fascination with the demon persisted throughout the development of statistical and quantum physics, information theory, and computer science, and links have been established between

Maxwell's demon and each of

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.

The Routledge Companion to Philosophy of Physics Eleanor Knox, Alastair Wilson.2021-09-28 The Routledge Companion to Philosophy of Physics is a comprehensive and authoritative guide to the state of the art in the philosophy of physics. It comprises 54 self-contained chapters written by leading philosophers of physics at both senior and junior levels, making it the most thorough and detailed volume of its type on the market - nearly every major perspective in the field is represented. The Companion's 54 chapters are organized into 12 parts. The first seven parts cover all of the major physical theories investigated by philosophers of physics today, and the last five explore key themes that unite the study of these theories. I. Newtonian Mechanics II. Special Relativity III. General Relativity IV. Non-Relativistic Quantum Theory V. Quantum Field Theory VI. Quantum Gravity VII. Statistical Mechanics and Thermodynamics VIII. Explanation IX. Intertheoretic Relations X. Symmetries XI. Metaphysics XII. Cosmology The difficulty level of the chapters has been carefully pitched so as to offer both accessible summaries for those new to philosophy of physics and standard reference points for active researchers on the front lines. An introductory chapter by the editors maps out the field, and each part also begins with a short summary that places the individual chapters in context. The volume will be indispensable to any serious student or scholar of philosophy of physics.

Statistical Mechanics James Sethna.2006-04-07 In each generation, scientists must redefine their fields: abstracting, simplifying and distilling the previous standard topics to make room for new advances and methods. Sethna's book takes this step for statistical mechanics - a field rooted in physics and chemistry whose ideas and methods are now central to information theory, complexity, and modern biology. Aimed at advanced undergraduates and early graduate students in all of these fields, Sethna limits his main presentation to the topics that future mathematicians and biologists, as well as physicists and chemists, will find fascinating and central to their work. The amazing breadth of the field is reflected in the author's large supply of carefully crafted exercises, each an introduction to a whole field of study: everything from chaos through information theory to life at the end of the universe.

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.

Probability in Physics Yemima Ben-Menahem, Meir Hemmo. 2012-01-25 What is the role and meaning of probability in physical theory, in particular in two of the most successful theories of our age, quantum physics and statistical mechanics? Laws once conceived as universal and deterministic, such as Newton's laws of motion, or the second law of thermodynamics, are replaced in these theories by inherently probabilistic laws. This collection of essays by some of the world's foremost experts presents an in-depth analysis of the meaning of probability in contemporary physics. Among the questions addressed are: How are probabilities defined? Are they objective or subjective? What is their explanatory value? What are the differences between quantum and classical probabilities? The result is an informative and thought-provoking book for the scientifically inquisitive.

Challenges to The Second Law of Thermodynamics Vladislav Capek, Daniel P. Sheehan. 2006-03-30 The advance of scientific thought in ways resembles biological and geologic transformation: long periods of gradual change punctuated by episodes of radical upheaval. Twentieth century physics witnessed at least three major shifts — relativity, quantum mechanics and chaos theory — as well many lesser ones. Now, at the start of the 21st century, another shift appears imminent, this one involving the second law of thermodynamics. Over the last 20 years the absolute status of the second law has come under increased scrutiny, more than during any other period in its 180-year history. Since the early 1980's, roughly 50 papers representing over 20 challenges have appeared in the refereed scientific literature. In July 2002, the first conference on its status was convened at the University of San Diego, attended by 120 researchers from 25 countries (QLSL2002) [1]. In 2003, the second edition of Leff's and Rex's classic anthology on Maxwell demons appeared [2], further raising interest in this emerging field. In 2004, the mainstream scientific journal *Entropy* published a special edition devoted to second law challenges [3]. And, in July 2004, an echo of QLSL2002 was held in Prague, Czech Republic [4]. Modern second law challenges began in the early 1980's with the theoretical proposals of Gordon and Denur. Starting in the mid-1990's, several proposals for experimentally testable challenges were advanced by Sheehan, et al. By the late 1990's and early 2000's, a rapid succession of theoretical quantum mechanical challenges were being advanced by Capek, et al.

NMR Quantum Information Processing Ivan Oliveira, Roberto Sarthour Jr., Tito Bonagamba, Eduardo Azevedo, Jair C. C. Freitas. 2011-04-18 Quantum Computation and Quantum Information (QIP) deals with the identification and use of quantum resources for information processing. This includes three main branches of investigation: quantum algorithm design, quantum simulation and quantum communication, including quantum cryptography. Along the past few years, QIP has become one of the most active areas of research in both, theoretical and experimental physics, attracting students and researchers fascinated, not only by the potential practical applications of quantum computers, but also by the possibility of studying fundamental physics at the deepest level of quantum phenomena. *NMR Quantum Computation and Quantum Information Processing* describes the fundamentals of NMR QIP, and the main developments which can lead to a large-scale quantum processor. The text starts with a general chapter on the interesting topic of the physics of computation. The very first ideas which sparked the development of QIP came from basic considerations of the physical processes underlying computational actions. In Chapter 2 it is made an introduction to NMR, including the hardware and other experimental aspects of the technique. In Chapter 3 we revise the fundamentals of Quantum Computation and Quantum Information. The chapter is very much based on the extraordinary book of Michael A. Nielsen and Isaac L. Chuang, with an upgrade containing some of the latest developments, such as QIP in phase space, and telecloning. Chapter 4 describes how NMR generates quantum logic gates from radiofrequency pulses, upon which quantum protocols are

built. It also describes the important technique of Quantum State Tomography for both, quadrupole and spin 1/2 nuclei. Chapter 5 describes some of the main experiments of quantum algorithm implementation by NMR, quantum simulation and QIP in phase space. The important issue of entanglement in NMR QIP experiments is discussed in Chapter 6. This has been a particularly exciting topic in the literature. The chapter contains a discussion on the theoretical aspects of NMR entanglement, as well as some of the main experiments where this phenomenon is reported. Finally, Chapter 7 is an attempt to address the future of NMR QIP, based in very recent developments in nanofabrication and single-spin detection experiments. Each chapter is followed by a number of problems and solutions. * Presents a large number of problems with solutions, ideal for students * Brings together topics in different areas: NMR, nanotechnology, quantum computation * Extensive references

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The Oxford Companion to Philosophy Ted Honderich.2005-03-10 Oxford University Press presents a major new edition of the definitive philosophical reference work for readers at all levels. For ten years the original volume has served as a stimulating introduction for general readers and as an indispensable guide for students; its breadth and depth of coverage have ensured that it is also read with pleasure and interest by those working at a higher level in philosophy and related disciplines. A distinguished international assembly of 249 philosophers contributed almost 2,000 entries, and many of these have now been considerably revised and updated; to these are added over 300 brand-new pieces on a fascinating range of current topics. This new edition offers enlightening and enjoyable discussions of all aspects of philosophy, and of the lives and work of the great philosophers from antiquity to the present day.

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