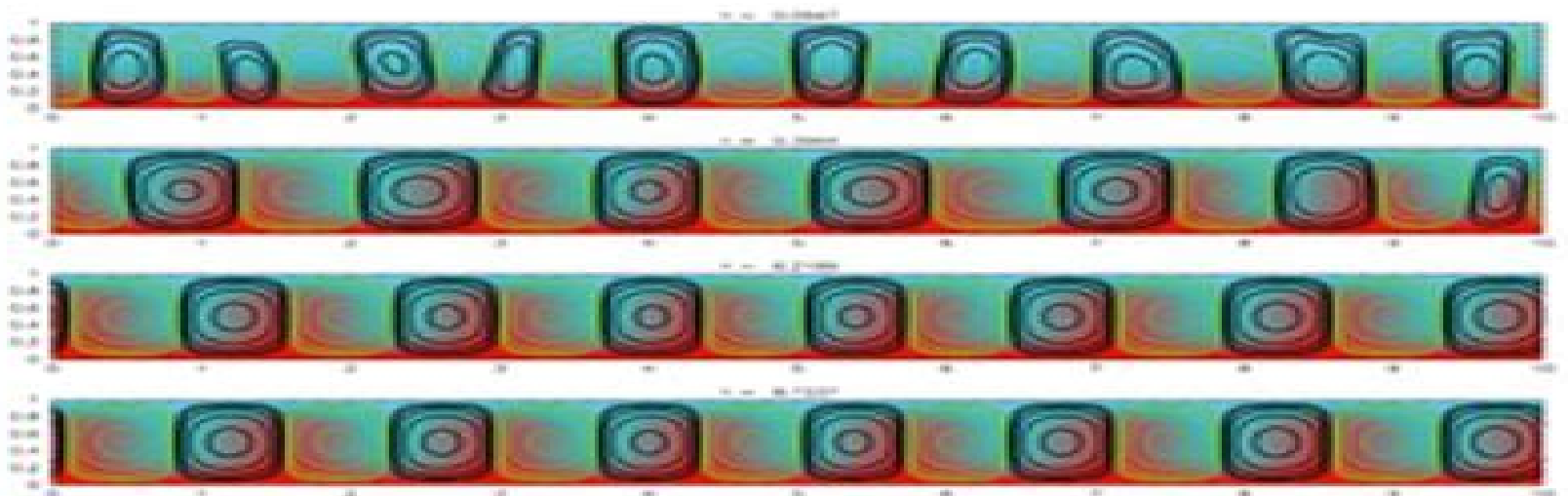


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NON-EQUILIBRIUM THERMODYNAMICS

ENTROPY, HEAT AND MASS TRANSFER



Non Equilibrium Thermodynamics And Statistical Mechanics Foundations And Applications

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Statistical Mechanics I Carlos Mejía-Monasterio, Lamberto Rondoni, 2025-09-30 This textbook offers a clear unified introduction to nonequilibrium statistical mechanics It combines the classical foundations of equilibrium and nonequilibrium thermodynamics with the field's latest advances Key topics include Brownian motion fluctuations theory the Boltzmann equation and probability measures in phase space A common mathematical framework links linear response theory transport processes large deviation principles and stochastic dynamics A companion Volume II will extend the discussion to applications such as anomalous transport living matter molecular dynamics and open quantum systems The book is written for researchers in applied mathematics theoretical physics biophysics and theoretical chemistry who study nonequilibrium phenomena It is equally suited to graduate students seeking an accessible path to advanced topics in thermodynamics transport theory fluctuation dynamics and dissipation It also serves as a reference for graduate courses on statistical mechanics stochastic systems and quantum thermodynamics **Non-Equilibrium Thermodynamics** S. R. De Groot, P.

Mazur, 2013-01-23 Classic monograph treats irreversible processes and phenomena of thermodynamics non equilibrium thermodynamics Covers statistical foundations and applications with chapters on fluctuation theory theory of stochastic processes kinetic theory of gases more **Understanding Bose-Einstein Condensation, Superfluidity, and**

High-Temperature Superconductivity Phil Attard, 2025-01-02 Bose Einstein condensation superfluidity and superconductivity are quantum mechanics made visible They mark the boundary between the classical and the quantum worlds and they show the macroscopic role of quantum mechanics in condensed matter This book presents these phenomena in terms of particles their positions and their momenta giving a concrete visualisation and description that is not possible with traditional wave functions A single approach that bridges the classical quantum divide provides new insight into the role of particle interactions in condensation the nature of collisions in superfluid flow and the physical form of Cooper pairs in high temperature superconductors High temperature superconductivity is explored with quantum statistical mechanics which links it to Bose Einstein condensation Identifying a new mechanism for Cooper pairing this explains the differences between the low and high temperature superconducting regimes and the role of the molecular structure of the conductor The new perspective offered by this book on Bose Einstein condensation superfluidity and high temperature superconductivity gives particle based explanations as well as mathematical and computational methods for these macroscopic quantum phenomena so that readers understand the role of particle interactions and structure in the physics of these phenomena This book will appeal to undergraduate and graduate students lecturers academics and scientific researchers in the fields of Bose

Einstein condensation and condensates superfluidity and superconductivity It will also be of interest to those working with thermodynamics statistical mechanics statistical physics quantum mechanics molecular dynamics materials science condensed matter physics and theoretical chemistry Key Features Explores Bose Einstein condensation with new evidence for multiple condensed states and novel Monte Carlo simulations for interacting bosons Establishes the thermodynamic nature of condensed bosons from an analysis of fountain pressure measurements including that they carry energy and entropy and the thermodynamic principle of superfluid flow Derives equations of motion for condensed bosons and performs molecular dynamics simulations of the viscosity with molecular trajectories that give rise to superfluidity Identifies the mechanism for electron pairing in high temperature superconductivity

Understanding Non-equilibrium Thermodynamics Georgy Lebon, David Jou, 2008-01-12 Our time is characterized by an explosion of information and by an acceleration of knowledge A book cannot compete with the huge amount of data available on the Web However to assimilate all this information it is necessary to structure our knowledge in a useful conceptual framework The purpose of the present work is to provide such a structure for students and researchers interested by the current state of the art of non equilibrium thermodynamics The main features of the book are a concise and critical presentation of the basic ideas illustrated by a series of examples selected not only for their pedagogical value but also for the perspectives offered by recent technological advances This book is aimed at students and researchers in physics chemistry engineering material sciences and biology We have been guided by two apparently antagonistic objectives generality and simplicity To make the book accessible to a large audience of non specialists we have decided about a simplified but rigorous presentation Emphasis is put on the underlying physical background without sacrificing mathematical rigour the several formalisms being illustrated by a list of examples and problems Altogether this work we have been guided by the formula Get them more from the less with the purpose to make a maximum of people aware of a maximum of knowledge from a minimum of basic tools Besides being an introductory text our objective is to present an overview as general as possible of the more recent developments in non equilibrium thermodynamics especially beyond the local equilibrium description

Non-equilibrium Thermodynamics Sybren Ruurds de Groot, Peter Mazur, 1984-01-01 Classic monograph treats the irreversible processes and phenomena of thermodynamics non equilibrium thermodynamics Covers statistical foundations and applications of the field with special chapters on fluctuation theory theory of stochastic processes kinetic theory of gases derivation of the Onsager reciprocal relations more 4 black and white illustrations

Differential Geometric Foundations of Non-Equilibrium Thermodynamics Marcus Hildebrandt, 2025-02-19 While all field theories are nowadays available in a modern differential geometric coordinate free formulation on manifolds this has been so far only rudimentary accomplished in general non equilibrium thermodynamics In this work it is shown how a fitting geometric structure can be derived for arbitrary compact discrete Schottky Systems thermodynamic systems such as stars and black holes using only a few thermodynamic principles This leads to deep geometric insights Some central results are the following

while in the theory of relativity the energy momentum tensor determines the geometry of the space in non equilibrium thermodynamics the 1 form of the entropy production rate is responsible for the emergence of a well known geometric structure the contact geometry Relaxation processes remain in the fibers in which they start and end on an attractor manifold that can be identified with the classical equilibrium subspace of thermostatics One then proves that outside this attractor manifold there are no reversible process directions As a consequence of this the 2nd Law of thermodynamics lives mainly on the fibers of the state manifold the so called vertical geometric structure while the 1st Law of thermodynamics is formulated on the horizontal components of the state manifold The internal energy provides a physical gauge for each fiber The 1st and 2nd Law of thermodynamics are coupled via the representation of the entropy flux 1 form that can be represented in the dual basis of exchange 1 forms such as the heat 1 form This fact can be used to provide a coordinate free invariant definition of non equilibrium temperature Finally it is shown that probably the most general geometric structure to model non equilibrium thermodynamics of compact discrete Schottky systems systems is given by a composite fibred cocontact phase manifold that includes time as an explicit dimension

Fractional Derivatives for Physicists and Engineers Vladimir V. Uchaikin, 2013-07-09 The first derivative of a particle coordinate means its velocity the second means its acceleration but what does a fractional order derivative mean Where does it come from how does it work where does it lead to The two volume book written on high didactic level answers these questions Fractional Derivatives for Physicists and Engineers The first volume contains a clear introduction into such a modern branch of analysis as the fractional calculus The second develops a wide panorama of applications of the fractional calculus to various physical problems This book recovers new perspectives in front of the reader dealing with turbulence and semiconductors plasma and thermodynamics mechanics and quantum optics nanophysics and astrophysics The book is addressed to students engineers and physicists specialists in theory of probability and statistics in mathematical modeling and numerical simulations to everybody who doesn't wish to stay apart from the new mathematical methods becoming more and more popular Prof Vladimir V UCHAIKIN is a known Russian scientist and pedagogue a Honored Worker of Russian High School a member of the Russian Academy of Natural Sciences He is the author of about three hundreds articles and more than a dozen books mostly in Russian in Cosmic ray physics Mathematical physics Levy stable statistics Monte Carlo methods with applications to anomalous processes in complex systems of various levels from quantum dots to the Milky Way galaxy

Non-equilibrium Energy Transformation Processes Viktor Holubec, 2014-05-22 Various experimental techniques have been advanced in recent years to measure non equilibrium energy transformations on the microscopic scale of single molecules In general the systems studied in the corresponding experiments are exposed to strong thermal fluctuations and thus the relevant energetic variables such as work and heat become stochastic This thesis addresses challenging theoretical problems in this active field of current research 1 Exact analytical solutions of work and heat distributions for isothermal non equilibrium processes in

suitable models are obtained 2 Corresponding solutions for cyclic processes involving two different heat reservoirs are found 3 Optimization of periodic driving protocols for such cyclic processes with respect to maximal output power efficiency and minimal power fluctuations is studied The exact solutions for work and heat distributions provide a reference for theoretical investigations of more complicated models giving insight into the structure of the tail of work distributions and serving as valuable test cases for simulations of the underlying stochastic processes

Non-Equilibrium Thermodynamics with Application to Solids W. Muschik, 2014-05-04 This book puts emphasis on developing the basic ideas behind the different approaches to non equilibrium thermodynamics and on applying them to solids After a survey about different approaches an introduction to their common fundamentals is given in the first part In the second part the mechanical behavior of special materials such as viscoelasticity viscoplasticity viscoelastoplasticity and thermoplasticity are discussed The third part is devoted to extended thermodynamics The basic ideas phenomenological as well as microscopical are reviewed and applied to thermo and viscoelastic materials Electromagnetic solids showing dielectric relaxation such as ceramics showing electromagneto mechanical hysteresis and superconductivity are treated in the fourth part In the last part stability with regard to constitutive equations is investigated Especially stability of quasi static processes and of elastic plastic systems are discussed *Journal of Non-equilibrium Thermodynamics*, 1998 *University of California Union Catalog of Monographs Cataloged by the Nine Campuses from 1963 Through 1967: Subjects* University of California (System). Institute of Library Research, University of California, Berkeley, 1972

Equilibrium And Non-equilibrium Statistical Mechanics (New And Revised Printing) Carolyne M Van Vliet, 2008-06-11 This book encompasses our current understanding of the ensemble approach to many body physics phase transitions and other thermal phenomena as well as the quantum foundations of linear response theory kinetic equations and stochastic processes It is destined to be a standard text for graduate students but it will also serve the specialist researcher in this fascinating field some more elementary topics have been included in order to make the book self contained The historical methods of J Willard Gibbs and Ludwig Boltzmann applied to the quantum description rather than phase space are featured The tools for computations in the microcanonical canonical and grand canonical ensembles are carefully developed and then applied to a variety of classical and standard quantum situations After the language of second quantization has been introduced strongly interacting systems such as quantum liquids superfluids and superconductivity are treated in detail For the connoisseur there is a section on diagrammatic methods and applications In the second part dealing with non equilibrium processes the emphasis is on the quantum foundations of Markovian behaviour and irreversibility via the Pauli Van Hove master equation Justifiable linear response expressions and the quantum Boltzmann approach are discussed and applied to various condensed matter problems From this basis the Onsager Casimir relations are derived together with the mesoscopic master equation the Langevin equation and the Fokker Planck truncation procedure Brownian motion and modern stochastic problems such as fluctuations in optical signals and radiation fields

briefly make the round **General physics, relativity, astronomy and mathematical physics and methods** ,1992

Quantum Stochastic Thermodynamics Philipp Strasberg,2022 The theory of thermodynamics has been one of the bedrocks of 19th century physics and thermodynamic problems have inspired Planck's quantum hypothesis One hundred years later in an era where we design increasingly sophisticated nanotechnologies researchers in quantum physics have been returning to their roots attempting to reconcile modern nanoscale devices with the theory of thermodynamics This textbook explains how it is possible to unify the two opposite pictures of microscopic quantum physics and macroscopic thermodynamics in one consistent framework proving that the ancient theory of thermodynamics still offers many remarkable insights into present day problems This textbook focuses on the microscopic derivation and understanding of key principles and concepts and their interrelation The topics covered in this book include quantum stochastic processes quantum master equations local detailed balance classical stochastic thermodynamics quantum fluctuation theorems strong coupling and non Markovian effects thermodynamic uncertainty relations operational approaches Maxwell's demon and time reversal symmetry among other topics The textbook also explores several practical applications of the theory in more detail including single molecule pulling experiments quantum transport and thermoelectric effects in quantum dots the micromaser and related setups in quantum optics The aim of this book is to inspire readers to investigate a plethora of modern nanoscale devices from a thermodynamic point of view allowing them to address their dissipation efficiency reliability and power based on a conceptually clear understanding about the microscopic origin of heat entropy and the second law The book is accessible to graduate students post docs and lecturers but will also be of interest to all researchers striving for a deeper understanding of the laws of thermodynamics beyond their traditional realm of applicability Il Nuovo Cimento ,1992

Statistical Thermodynamics and Stochastic Theory of Nonequilibrium Systems Werner Ebeling,Igor M. Sokolov,2005 This book presents both the fundamentals and the major research topics in statistical physics of systems out of equilibrium It summarizes different approaches to describe such systems on the thermodynamic and stochastic levels and discusses a variety of areas including reactions anomalous kinetics and the behavior of self propelling particles Proceedings of the International Conference on Statistical Mechanics, Kyoto, September 9-14, 1968 ,1969 Complexity and Complex Thermo-Economic Systems Stanislaw Sieniutycz,2019-11-24 Complexity and Complex Thermo-economic Systems describes the properties of complexity and complex thermo economic systems as the consequence of formulations definitions tools solutions and results consistent with the best performance of a system Applying to complex systems contemporary advanced techniques such as static optimization optimal control and neural networks this book treats the systems theory as a science of general laws for functional integrities It also provides a platform for the discussion of various definitions of complexity complex hierarchical structures self organization examples special references and historical issues This book is a valuable reference for scientists engineers and graduated students in chemical mechanical and environmental engineering as well as

those in physics ecology and biology helping them better understand the complex thermodynamic systems and enhance their technical skills in research Provides a lucid presentation of the dynamical properties of thermoeconomic systems Includes original graphical material that illustrates the properties of complex systems Written by a first class expert in the field of advanced methods in thermodynamics *Scientific and Technical Books in Print* ,1972

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