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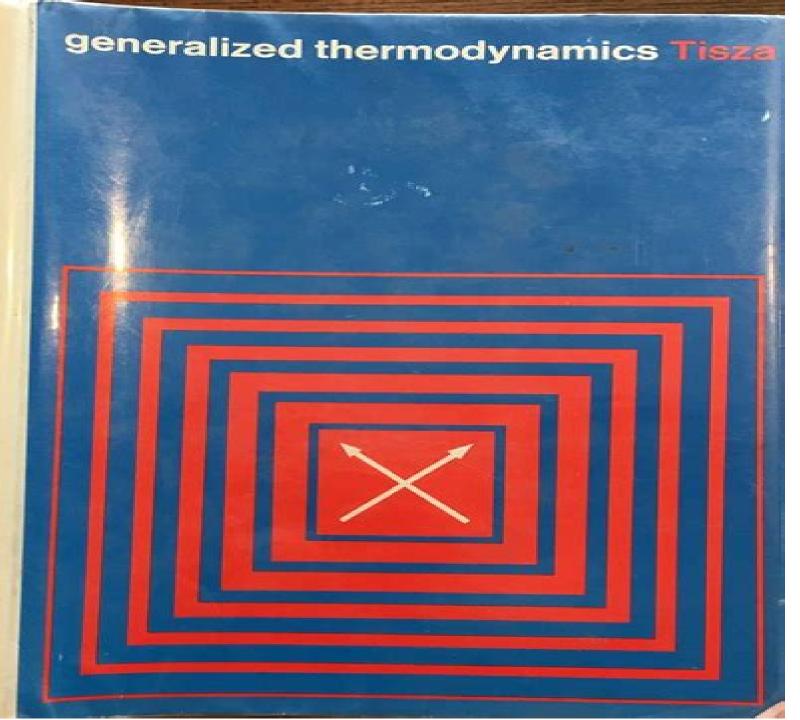
Generalized Thermodynamics

Adrian Bejan,Eden Mamut

Generalized Thermodynamics:

   Generalized Thermodynamics Byung Chan Eu,2006-04-11 Despite a long history of almost 180 years stretching back to the times of Carnot and later Clausius and Lord Kelvin amongst others following him the subject of thermodynamics has not as yet seen its full maturity in the sense that the theory of irreversible processes has remained incomplete The works of L Onsager J Meixner I Prigogine on the thermodyn ics of linear irreversible processes are in effect the early efforts toward the desired goal of giving an adequate description of irreversible processes but their theory is confined to near equilibrium phenomena The works in recent years by various research workers on the extension of the aforem tioned thermodynamic theory of linear irreversible processes are further efforts toward the goal mentioned The present work is another of such efforts and a contribution to the subject of generalizing the thermodyn ics of reversible processes namely equilibrium thermodynamics to that of irreversible processes non equilibrium thermodynamics without being restricted to linear irreversible processes In this context the terms far moved from equilibrium is often used in the literature and such states of macroscopic systems and non linear irreversible phenomena in them are the objects of interest in this work The thermodynamics of processes either reversible or irreversible is a continuum mechanical theory of matter and energy and their exchange between different parts of the system and as such it makes no direct r erence to the molecules constituting the substance under consideration   **Generalized Thermodynamics** Laszlo Tisza,1966   Generalized Thermodynamics [by] László Tisza [and Others]. Laszlo Tisza,1966   *Kinetic Theory of Nonequilibrium Ensembles, Irreversible Thermodynamics, and Generalized Hydrodynamics* Byung Chan Eu,2016-07-13 This book presents the fundamentals of irreversible thermodynamics for nonlinear transport processes in gases and liquids as well as for generalized hydrodynamics extending the classical hydrodynamics of Navier Stokes Fourier and Fick Together with its companion volume on nonrelativistic contexts it provides a comprehensive picture of the relativistic covariant kinetic theory of gases and relativistic hydrodynamics of gases Relativistic theories of macroscopic irreversible processes must strictly conform to the thermodynamic laws at every step and in all approximations that enter their derivation from the mechanical principles Upholding this as the inviolable tenet the author develops theories of irreversible transport processes in fluids gases or liquids They apply regardless of whether the processes are near to or far removed from equilibrium or whether they are linear or nonlinear with respect to macroscopic fluxes or thermodynamic forces The irreversible covariant Boltzmann as well as the covariant form of the Boltzmann Nordheim Uehling Uhlenbeck equation is used for deriving theories of irreversible transport equations and generalized hydrodynamic equations for either classical gases or quantum gases They all conform rigorously to the tenet All macroscopic observables described by the so formulated theories therefore are likewise expected to strictly obey the tenet   **Thermodynamics from the Classic and Generalized Standpoints** Joseph Louis Finck,1955   *Generalized Models and Non-classical Approaches in Complex Materials 1* Holm Altenbach,Joël Pouget,Martine

Rousseau,Bernard Collet,Thomas Michelitsch,2018-03-24 This book is the first of 2 special volumes dedicated to the memory of G rard Maugin Including 40 papers that reflect his vast field of scientific activity the contributions discuss non standard methods generalized model to demonstrate the wide range of subjects that were covered by this exceptional scientific leader The topics range from micromechanical basics to engineering applications focusing on new models and applications of well known models to new problems They include micro macro aspects computational endeavors options for identifying constitutive equations and old problems with incorrect or non satisfying solutions based on the classical continua assumptions **Materials and Thermodynamics** Pierre Delhaes,2017-09-18 A thermodynamic system is defined according to its environment and its compliance This book promotes the classification of materials from generalized thermodynamics outside the equilibrium state and not solely according to their chemical origin The author goes beyond standard classification of materials and extends it to take into account the living ecological economic and financial systems in which they exist all these systems can be classified according to their deviation from an ideal situation of thermodynamic equilibrium The concepts of dynamic complexity and hierarchy emphasizing the crucial role played by cycles and rhythms then become fundamental Finally the limitations of the uniqueness of this description that depend on thermodynamic foundations based on the concepts of energy and entropy are discussed in relation to the cognitive sciences **Maximum Dissipation Non-Equilibrium Thermodynamics and its Geometric Structure** Henry W. Haslach Jr.,2011-01-15 Maximum Dissipation Non Equilibrium Thermodynamics and its Geometric Structure explores the thermodynamics of non equilibrium processes in materials The book develops a general technique created in order to construct nonlinear evolution equations describing non equilibrium processes while also developing a geometric context for non equilibrium thermodynamics Solid materials are the main focus in this volume but the construction is shown to also apply to fluids This volume also Explains the theory behind thermodynamically consistent construction of non linear evolution equations for non equilibrium processes Provides a geometric setting for non equilibrium thermodynamics through several standard models which are defined as maximum dissipation processes Emphasizes applications to the time dependent modeling of soft biological tissue Maximum Dissipation Non Equilibrium Thermodynamics and its Geometric Structure will be valuable for researchers engineers and graduate students in non equilibrium thermodynamics and the mathematical modeling of material behavior **Non-equilibrium thermodynamics and physical kinetics** Halid Bikkin,Igor I. Lyapilin,2014-01-31 This graduate textbook covers contemporary directions of non equilibrium statistical mechanics as well as classical methods of kinetics Starting from phenomenological non equilibrium thermodynamics the kinetic equation method discussed and demonstrated with electrons and phonons in conducting crystals Linear response theory as well as the non equilibrium statistical operator and the master equation approach are discussed in the course of the book With one of the main propositions being to avoid terms such as obviously and it is easy to show this treatise is an easy to read introduction into this traditional yet vibrant field Problems and

their well documented solutions included at appropriate points of the narrative allow the reader to actively develop essential parts of the theory himself From the content Phenomenological thermodynamics of irreversible processes Brownian motion Kinetic equations in non equilibrium thermodynamics Kinetic equation for electrons and phonons in conducting crystals Theory of non linear response to an external mechanical pertubation Non equilibrium statistical operator method Response of a highly non equilibrium system to a weakly measuring field Master equation approach **Chemical Thermodynamics** Byung Chan Eu,Mazen Al-Ghoul,2010 Thermodynamics is an ever evolving subject This book aims to introduce to advanced undergraduate students and graduate students the fundamental ideas and notions of the first and second laws of thermodynamics in a manner unavailable in the usual textbooks on the subject of thermodynamics For example it treats the notions of unavailable work compensated and uncompensated heats and dissipation which make it possible to formulate the thermodynamic laws in more broadened forms than those in the conventional treatment of equilibrium thermodynamics It thus strives to prepare students for more advanced subjects of irreversible processes which are encountered in our everyday scientific activities In addition it also aims to provide them with functional and practical knowledge of equilibrium chemical thermodynamics of reversible processes in real fluids It discusses temperature work and heat thermodynamic laws equilibrium conditions and thermodynamic stability thermodynamics of reversible processes in gases and liquids in surfaces chemical equilibria reversible processes in electrolyte solutions and dielectrics in static electric and magnetic fields A couple of examples for irreversible processes associated with fluid flows and chemical pattern formation and wave propagations are discussed as examples for applications of broader treatments of the thermodynamic laws in the realm of irreversible phenomena **Thermodynamics of Fluids Under Flow** David Jou,José Casas-Vázquez,Manuel Criado-Sancho,2010-12-02 This is the second edition of the book Thermodynamics of Fluids under Flow which was published in 2000 and has now been corrected expanded and updated This is a companion book to our other title Extended irreversible thermodynamics D Jou J Casas V zquez and G Lebon Springer 4th edition 2010 and of the textbook Understanding non equilibrium thermodynamics G Lebon D Jou and J Casas V zquez Springer 2008 The present book is more specialized than its counterpart as it focuses its attention on the non equilibrium thermodynamics of flowing fluids incorporating non trivial thermodynamic contributions of the flow going beyond local equilibrium theories i e including the effects of internal variables and of external forcing due to the flow Whereas the book s first edition was much more focused on polymer solutions with brief glimpses into ideal and real gases the present edition covers a much wider variety of systems such as diluted and concentrated polymer solutions polymer blends laminar and turbulent superfluids phonon hydrodynamics and heat transport in nanosystems nuclear collisions far from equilibrium ideal gases and molecular solutions It also deals with a variety of situations emphasizing the non equilibrium flow contribution temperature and entropy in flowing ideal gases shear induced effects on phase transitions in real gases and on polymer solutions stress induced migration and its application to flow chromatography Taylor dispersion

anomalous diffusion in flowing systems the influence of the flow on chemical reactions and polymer degradation The new edition is not only broader in scope but more educational in character and with more emphasis on applications in keeping with our times It provides many examples of how a deeper theoretical understanding may bring new and more efficient applications forging links between theoretical progress and practical aims This updated version expands on the trusted content of its predecessor making it more interesting and useful for a larger audience **Chemical Thermodynamics: Reversible And Irreversible Thermodynamics (Second Edition).** Byung Chan Eu,Mazen Al-ghoul,2018-03-09 This book enables the reader to learn in a single volume equilibrium and nonequilibrium thermodynamics as well as generalized forms of hydrodynamics for linear and nonlinear processes applied to various hydrodynamic flow processes including chemical oscillation phenomena and pattern formations shock wave phenomena sound wave propagations and Liesegang pattern formation amongst others Chemical Thermodynamics introduces advanced undergraduate students and graduate students to the fundamental ideas and notions of the first and second laws of thermodynamics by seamlessly combining equilibrium and nonequilibrium thermodynamics in a unicameral viewpoint based on the first and second law of thermodynamics Part I of the book discusses equilibrium thermodynamics in historical deference covering topics generally dealt with in traditional equilibrium thermodynamics In Part II the concept of entropy for reversible processes is extended and developed for thermodynamics of irreversible processes by using the concept of calortropy heat evolution so that the mathematical theory of macroscopic processes in matter including a generalized form of hydrodynamics is ensured to remain consistent with the thermodynamic laws Thermodynamic Optimization of Complex Energy Systems Adrian Bejan,Eden Mamut,2012-12-06 A comprehensive assessment of the methodologies of thermodynamic optimization exergy analysis and thermoeconomics and their application to the design of efficient and environmentally sound energy systems The chapters are organized in a sequence that begins with pure thermodynamics and progresses towards the blending of thermodynamics with other disciplines such as heat transfer and cost accounting Three methods of analysis stand out entropy generation minimization exergy or availability analysis and thermoeconomics The book reviews current directions in a field that is both extremely important and intellectually alive Additionally new directions for research on thermodynamics and optimization are revealed Information Dynamics and Open Systems Roman S. Ingarden,A. Kossakowski,M. Ohya,2013-11-11 This book has a long history of more than 20 years The first attempt to write a monograph on information theoretic approach to thermodynamics was done by one of the authors RSI in 1974 when he published in the preprint form two volumes of the book Information Theory and Thermodynamics concerning classical and quantum information theory 153 220 pp 154 185 pp In spite of the encouraging remarks by some of the readers the physical part of this book was never written except for the first chapter Now this material is written completely anew and in much greater extent A few years earlier in 1970 second author of the present book AK a doctoral student and collaborator of RSI in Toruli published in Polish also as a preprint his habilitation dissertation

Information theoretical decision scheme in quantum statistical mechanics 196 96 pp This small monograph presented his original results in the physical part of the theory developed in the Torun school Unfortunately this preprint was never published in English The present book contains all these results in a much more modern and developed form   Conflict in History, Measuring Symmetry, Thermodynamic Modeling and Other Work Dennis Glenn Collins,2011-11-23 This book should revolutionize the study of history symmetry and economic modeling History is dominated by one pattern over different scales symmetry is based on counting the number of pairs of equal distances and social science extends from Josiah Willard Gibbs thermodynamic models   Generalized Thermodynamics Byung Chan Eu,2014-01-15   **The Nature of Motive Force** Achintya Kumar Pramanick,2014-08-23 In this monograph Prof Pramanick explicates the law of motive force a fundamental law of nature that can be observed and appreciated as an addition to the existing laws of thermodynamics This unmistakable and remarkable tendency of nature is equally applicable to all other branches of studies He first conceptualized the law of motive force in 1989 when he was an undergraduate student Here he reports various applications of the law in the area of thermodynamics heat transfer fluid mechanics and solid mechanics and shows how it is possible to solve analytically century old unsolved problems through its application This book offers a comprehensive account of the law and its relation to other laws and principles such as the generalized conservation principle variational formulation Fermat s principle Bejan s constructal law entropy generation minimization Bejan s method of intersecting asymptotes and equipartition principle Furthermore the author addresses some interrelated fundamental problems of contemporary interest especially to thermodynamicists by combining analytical methods physical reasoning and the proposed law of motive force This foundational work is a valuable reading for both students and researchers in exact as well as non exact sciences and at the same time a pleasant learning experience for the novice   **NASA Technical Translation** ,1964   **Generalized Thermodynamics** Vsevolod T. Radcenco,1994   *Complexity and Complex Chemo-Electric Systems* Stanislaw Sieniutycz,2021-02-09 Complexity and Complex Chemo Electric Systems presents an analysis and synthesis of chemo electric systems providing insights on transports in electrolytes electrode reactions electrocatalysis electrochemical membranes and various aspects of heterogeneous systems and electrochemical engineering The book describes the properties of complexity and complex chemo electric systems as the consequence of formulations definitions tools solutions and results that are often consistent with the best performance of the system The book handles cybernetics systems theory and advanced contemporary techniques such as optimal control neural networks and stochastic optimizations adaptive random search genetic algorithms and simulated annealing A brief part of the book is devoted to issues such as various definitions of complexity hierarchical structures self organization examples special references and historical issues This resource complements Sieniutycz recently published book Complexity and Complex Thermodynamic Systems with its inclusion of complex chemo electric systems in which complexities emergent properties and self organization play essential roles Covers

the theory and applications of complex chemo electric systems through modeling analysis synthesis and optimization Provides a clear presentation of the applications of transport theory to electrolyte solutions heterogeneous electrochemical systems membranes electro kinetic phenomena and interface processes Includes numerous explanatory graphs and drawings that illustrate the properties and complexities in complex chemo electric systems Written by an experienced expert in the field of advanced methods in thermodynamics and related aspects of macroscopic physics

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