ADRIAN BEJAN

ENTROPY GENERATION MINIMIZATION

The Method of Thermodynamic Optimization of Finite-Size Systems and Finite-Time Processes



Adrian Bejan, Eden Mamut

Entropy Generation Minimization Adrian Bejan, 1995-10-20 This book presents the diverse and rapidly expanding field of Entropy Generation Minimization EGM the method of thermodynamic optimization of real devices The underlying principles of the EGM method also referred to as thermodynamic optimization thermodynamic design and finite time thermodynamics are thoroughly discussed and the method's applications to real devices are clearly illustrated. The EGM field has experienced tremendous growth during the 1980s and 1990s This book places EGM s growth in perspective by reviewing both sides of the field engineering and physics Special emphasis is given to chronology and to the relationship between the more recent work and the pioneering work that outlined the method and the field Entropy Generation Minimization combines the fundamental principles of thermodynamics heat transfer and fluid mechanics EGM applies these principles to the modeling and optimization of real systems and processes that are characterized by finite size and finite time constraints and are limited by heat and mass transfer and fluid flow irreversibilities Entropy Generation Minimization provides a straightforward presentation of the principles of the EGM method and features examples that elucidate concepts and identify recent EGM advances in engineering and physics Modern advances include the optimization of storage by melting and solidification heat exchanger design power from hot dry rock deposits the on the production of ice and other solids the maximization of power output in simple power plant models with heat transfer irreversibilities the minimization of refrigerator power input in simple Entropy Generation Minimization Adrian Bejan, 2013-10-29 models and the optimal collection and use of solar energy This book presents the diverse and rapidly expanding field of Entropy Generation Minimization EGM the method of thermodynamic optimization of real devices. The underlying principles of the EGM method also referred to as thermodynamic optimization thermodynamic design and finite time thermodynamics are thoroughly discussed and the me **Systems Biology** A.K. Konopka, 2006-11-20 With extraordinary clarity the Systems Biology Principles Methods and Concepts focuses on the technical practical aspects of modeling complex or organic general systems It also provides in depth coverage of modeling biochemical thermodynamic engineering and ecological systems Among other methods and concepts based in logic Exergy for A Better Environment and Improved Sustainability 1 Fethi Aloui, Ibrahim Dincer, 2018-08-04 This computer multi disciplinary book presents the most recent advances in exergy energy and environmental issues Volume 1 focuses on fundamentals in the field and covers current problems future needs and prospects in the area of energy and environment from researchers worldwide Based on selected lectures from the Seventh International Exergy Energy and Environmental Symposium IEEES7 2015 and complemented by further invited contributions this comprehensive set of contributions promote the exchange of new ideas and techniques in energy conversion and conservation in order to exchange best practices in energetic efficiency Included are fundamental and historical coverage of the green transportation and

sustainable mobility sectors especially regarding the development of sustainable technologies for thermal comforts and green transportation vehicles Furthermore contributions on renewable and sustainable energy sources strategies for energy production and the carbon free society constitute an important part of this book Exergy for Better Environment and Sustainability Volume 1 will appeal to researchers students and professionals within engineering and the renewable energy fields **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

Aircraft Thermal Management Mark Ahlers, 2016-03-02 The simultaneous operation of all systems generating moving or removing heat on an aircraft is simulated using integrated analysis which is called Integrated Energy System Analysis IESA for this book Its purpose is to understand optimize and validate more efficient system architectures for removing or harvesting the increasing amounts of waste heat generated in commercial and military aircraft In the commercial aircraft industry IESA is driven by the desire to minimize airplane operating costs associated with increased system weight power consumption drag and lost revenue as cargo space is devoted to expanded cooling systems In military aircraft thermal IESA is also considered to be a key enabler for the successful implementation of the next generation jet fighter weapons systems and countermeasures This book contains a selection of papers relevant to aircraft thermal management IESA published by SAE International They cover both recently developed government and industry funded thermal management IESA such as the Integrated Vehicle Energy Technology INVENT program and older published papers still relevant today which address modeling approaches Primary Exergy Cost of Goods and Services Matteo Vincenzo Rocco, 2016-08-19 This book describes the Exergy based Input Output ExIO framework a comprehensive methodology for assessing the primary fossil fuels requirements for the production of goods and services within a given economy from a lifecycle perspective In the ExIO approach exergy is assumed to be the best suited thermodynamic metric for characterizing fossil fuels. The mathematical formulation of ExIO is based on Input Output analysis which defines boundaries in time and space for any system or product analyzed encompassing its entire lifecycle The Hybrid ExIO approach has been developed to increase the accuracy of results and to analyze energy systems in detail leading to the definition of criteria and indicators for identifying and optimizing the primary fossil fuels requirements of system products Lastly the Bioeconomic ExIO model has been proposed to account for the side effects that the working hours required for producing goods and services have on the total primary fossil fuels

consumption As such the book will be of considerable interest to both researchers and engineers in industry offering them essential guidelines on the utilization of exergy and thermoeconomic analysis **The Nature of Motive Force** Achintva 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 Carnot Cycle and Heat Engine Fundamentals and Applications Michel Feidt, 2020-07-03 This book results from a Special Issue related to the latest progress in the thermodynamics of machines systems and processes since the premonitory work of Carnot Carnot invented his famous cycle and generalized the efficiency concept for thermo mechanical engines Since that time research progressed from the equilibrium approach to the irreversible situation that represents the general case This book illustrates the present state of the art advances after one or two centuries of consideration regarding applications and fundamental aspects. The research is moving fast in the direction of economic and environmental aspects This will probably continue during the coming years This book mainly highlights the recent focus on the maximum power of engines as well as the corresponding first law efficiency upper bounds **Advances in Finite-time Thermodynamics** Chih Wu,1999 Finite time thermodynamics FTT is one of the newest and most challenging areas in thermodynamics The objective of this book is to provide results from research which continues at an impressive rate The authors make a concentrated effort to reach out and encourage academic and industrial participation in this book and to select papers that are relevant to current problems and practice. The numerous contributions from the international community are indicative of the continuing global interest in finite time thermodynamics All represent the newest developments in their respective areas Proceedings of the 240 Conference Aaron R. Dinner, 2015-01-07 Based on the 240 Conference held at the University of Chicago in September of 2012 this special volume of The Advances in Chemical Physics series celebrates scientific research contributions and careers of R Stephen Berry Stuart A Rice and Joshua Jortner In addition to continuing the chemical physics field with a forum for critical authoritative evaluations of advances in

the discipline Volume 157 explores the following topics The Emergence and Breakdown of Complexity Dynamics at Extremes Grand Questions Regarding Biomolecular Homochirality in the Origin and Evolution of Life The book celebrates the scientific research contributions and careers of R Stephen Berry Stuart A Rice and Joshua Jortner contributes to the only series available that presents the cutting edge of research in chemical physics includes contributions from experts in this field of research structured with an editorial framework that makes the book an excellent supplement to an advanced graduate class in physical chemistry or chemical physics Advanced Heat Transfer Greg F. Naterer, 2021-12-27 The book provides a valuable source of technical content for the prediction and analysis of advanced heat transfer problems including conduction convection radiation phase change and chemically reactive modes of heat transfer With more than 20 new sections case studies and examples the Third Edition broadens the scope of thermal engineering applications including but not limited to biomedical micro and nanotechnology and machine learning The book features a chapter devoted to each mode of multiphase heat transfer FEATURES Covers the analysis and design of advanced thermal engineering systems Presents solution methods that can be applied to complex systems such as semi analytical machine learning and numerical methods Includes a chapter devoted to each mode of multiphase heat transfer including boiling condensation solidification and melting Explains processes and governing equations of multiphase flows with droplets and particles Applies entropy and the second law of thermodynamics for the design and optimization of thermal engineering systems Advanced Heat Transfer Third Edition offers a comprehensive source for single and multiphase systems of heat transfer for senior undergraduate and graduate students taking courses in advanced heat transfer multiphase fluid mechanics and advanced thermodynamics A solutions manual is provided to adopting instructors Gas Allocation Optimization Methods in Artificial Gas Lift Ehsan Khamehchi, Mohammad Reza Mahdiani, 2016-12-31 This Brief offers a comprehensive study covering the different aspects of gas allocation optimization in petroleum engineering It contains different methods of defining the fitness function dealing with constraints and selecting the optimizer in each chapter a detailed literature review is included which covers older and important studies as well as recent publications This book will be of use for production engineers and students interested in gas lift optimization Life Cycle Assessment (LCA) of Environmental and Energy Systems Fabrizio Passarini, Luca Ciacci, 2021-04-01 The transition towards renewable energy sources and green technologies for energy generation and storage is expected to mitigate the climate emergency in the coming years However in many cases this progress has been hampered by our dependency on critical materials or other resources that are often processed at high environmental burdens Yet many studies have shown that environmental and energy issues are strictly interconnected and require a comprehensive understanding of resource management strategies and their implications Life cycle assessment LCA is among the most inclusive analytical techniques to analyze sustainability benefits and trade offs within complex systems and in this Special Issue it is applied to assess the mutual influences of environmental and energy dimensions. The selection of original articles

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Non-equilibrium Thermodynamics For Engineering Applications Signe Kjelstrup, Dick Bedeaux, Eivind Johannessen, Joachim Gross, Oivind Wilhelmsen, 2024-07-23 This book presents the theory of non equilibrium thermodynamics in a pedagogical and practical way that targets engineering applications In it tools to take advantage of the second as well as the first law of thermodynamics are provided The book starts by explaining how the entropy production is the cornerstone of non equilibrium thermodynamics the basis to describe coupled transport phenomena which are highly relevant for several renewable energy technologies The book also uses entropy production as the foundation for a systematic methodology to analyze and improve energy efficiency and shows how entropy production can be used to test the consistency of transport models The link between transport theory and energy efficiency is also shown and the relationship to exergy analysis is demonstrated The theory is applied using examples from practical cases like evaporation heat exchange reactor optimization

distillation and more Non Equilibrium Thermodynamics for Engineering Applications may be used as a textbook for undergraduate and graduate university curricula containing thermodynamics or energy conversion issues at large chemical and mechanical engineering applied chemistry and applied physics Heat Transfer XIII B. Sundén, C. A. Brebbia, 2014-07-01 This book contains the proceedings of the thirteenth conference in the well established series on Simulation and Experiments in Heat Transfer and its applications Recent Advances in Thermal Sciences and Engineering Hemant B. Mehta, Manish K. Rathod, Rufat Abiev, Müslüm Arıcı, 2023-05-05 This book presents select proceedings of the International Conference on Advances in Fluid Flow and Thermal Sciences ICAFFTS 2021 and summarizes the modern research practices in thermal sciences and engineering The content of book involves advanced topics in heat transfer science automobile refrigeration and air conditioning cryogenics non conventional systems and energy storage Topics on cutting edge research in the area of hybrid nano PCM based systems solar based applications bio diesel and nano additives based combustion fuel cell and thermoacoustic engine are also included In addition this book contains recent research in the area of two phase thermal management of Li Ion Li titanium battery and LED systems using heat sink heat pipe pulsating heat pipe and thermosyphon with next generation refrigerants PCM and nanofluid Some thermal aspects of virus aerosol research advances in volumetric velocimetry and application of artificial intelligence in thermal systems are also covered This book is a valuable reference for academicians researchers and professionals working in the various fields of thermal sciences

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