

ENTROPY GENERATION THROUGH HEAT AND FLUID FLOW

BY

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Energy Optimization in Process Systems Stanislaw Sieniutycz, Jacek Jezowski, 2009-05-06 Despite the vast research on energy optimization and process integration there has to date been no synthesis linking these together This book fills the gap presenting optimization and integration in energy and process engineering The content is based on the current literature and includes novel approaches developed by the authors Various thermal and chemical systems heat and mass exchangers thermal and water networks energy converters recovery units solar collectors and separators are considered Thermodynamics kinetics and economics are used to formulate and solve problems with constraints on process rates equipment size environmental parameters and costs Comprehensive coverage of dynamic optimization of energy conversion systems and separation units is provided along with suitable computational algorithms for deterministic and stochastic optimization approaches based on nonlinear programming dynamic programming variational calculus Hamilton Jacobi Bellman theory Pontryagin's maximum principles and special methods of process integration Integration of heat energy and process water within a total site is shown to be a significant factor reducing production costs in particular costs of utilities for the chemical industry This integration involves systematic design and optimization of heat exchangers and water networks HEN and WN After presenting basic insight based Pinch Technology systematic optimization based sequential and simultaneous approaches to design HEN and WN are described Special consideration is given to the HEN design problem targeting stage in view of its importance at various levels of system design Selected advanced methods for HEN synthesis and retrofit are presented For WN design a novel approach based on stochastic optimization is described that accounts for both grassroot and revamp design scenarios Presents a unique synthesis of energy optimization and process integration that applies scientific information from thermodynamics kinetics and systems theory Discusses engineering applications including power generation resource upgrading radiation conversion and chemical transformation in static and dynamic systems Clarifies how to identify thermal and chemical constraints and incorporate them into optimization models and solutions

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

Energy Optimization in Process Systems and Fuel Cells Stanislaw Sieniutycz, Jacek Jezowski, 2018-05-16 Energy Optimization in Process Systems and Fuel Cells Third Edition covers the optimization and integration of energy systems with a particular focus on fuel cell technology With rising energy prices imminent energy shortages and the increasing environmental impacts of energy production energy optimization and systems integration is critically important The book applies thermodynamics kinetics and economics to study the effect of equipment size environmental parameters and economic factors on optimal power production and heat integration Author Stanislaw Sieniutycz highly recognized for his expertise and teaching shows how costs can be substantially reduced particularly in utilities common in the chemical industry This third edition contains substantial revisions and modifications with new material on catalytic reactors sorption systems sorbent or catalyst regenerators dryers and more Presents a unified approach to the optimization and integration of energy systems Includes a large number of examples treating dynamical systems Provides exposition showing the power of thermodynamics Contains a large number of maximum power analyses and their extensions

Thermodynamic Approaches in Engineering Systems Stanislaw Sieniutycz, 2016-05-20 Thermodynamic Approaches in Engineering Systems responds to the need for a synthesizing volume that throws light upon the extensive field of thermodynamics from a chemical engineering perspective that applies basic ideas and key results from the field to chemical engineering problems This book outlines and interprets the most valuable achievements in applied non equilibrium thermodynamics obtained within the recent fifty years It synthesizes nontrivial achievements of thermodynamics in important branches of chemical and biochemical engineering Readers will gain an update on what has been achieved what new research problems could be stated and what kind of further studies should be developed within specialized research Presents clearly structured chapters beginning with an introduction elaboration of the process and results summarized in a conclusion Written by a first class expert in the field of advanced methods in thermodynamics Provides a synthesis of recent thermodynamic developments in practical systems Presents very elaborate literature discussions from the past fifty years

Recent Trends in Mechanical Engineering Amitava De, Partha P. Mukherjee, Sukumar Pati, Agnimitra

Biswas, 2024-12-27 This book presents the select proceedings of the 5th International Conference on Recent Advancements in Mechanical Engineering ICRAME 2024. Various topics covered in this book are thermal engineering, design engineering, manufacturing, production engineering, engineering design, novel materials for thin film solar cells, solar thermal, hydrogen, cryogenic applications, renewable energy, conventional and non-conventional machining, ergonomics, and many more. The book is useful for researchers and professionals working in the various areas of mechanical engineering.

Optimal Control in Thermal Engineering Viorel Badescu, 2017-03-14 This book is the first major work covering applications in thermal engineering and offering a comprehensive introduction to optimal control theory which has applications in mechanical engineering, particularly aircraft and missile trajectory optimization. The book is organized in three parts. The first part includes a brief presentation of function optimization and variational calculus, while the second part presents a summary of the optimal control theory. Lastly, the third part describes several applications of optimal control theory in solving various thermal engineering problems. These applications are grouped in four sections: heat transfer and thermal energy storage, solar thermal engineering, heat engines, and lubrication. Clearly presented and easy to use, it is a valuable resource for thermal engineers and thermal system designers, as well as postgraduate students.

Progress in Sustainable Energy Technologies Vol II Ibrahim Dincer, Adnan Midilli, Haydar Kucuk, 2014-09-25 This multi-disciplinary volume presents information on the state of the art in sustainable development technologies and tactics. Its unique amalgamation of the latest technical information, research findings, and examples of successfully applied new developments in the area of sustainable development will be of keen interest to engineers, students, practitioners, scientists, and researchers concerned with sustainability. Problem statements, projections, new concepts, models, experiments, measurements, and simulations from not only engineering and science but disciplines as diverse as ecology, education, economics, and information technology are included in order to create a truly holistic vision of the sustainable development field. The contributions feature coverage of topics including green buildings, exergy analysis, clean carbon technologies, waste management, energy conservation, environmental remediation, energy security, and sustainable development policy.

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