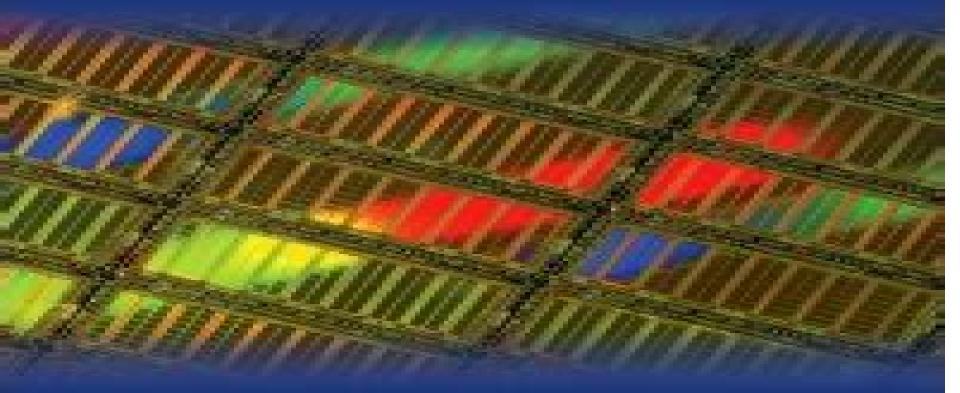


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Emergy Optimization in Process Systems and Fuel Cells



Stanisław Sieniutycz and Jacek Jeżowski[†]

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separators chemical reactors catalyst regenerators etc The book is an indispensable source for researchers and students providing the necessary information on what has been achieved to date in the field of process optimization new research problems and what kind of further studies should be developed within quite specialized optimizations Summarizes recent achievements of advanced optimization techniques Links exergy definitions in reversible systems with classical problems of extremum work Includes practical problems and illustrative examples to clarify applications Provides a unified description of classical and work assisted heat and mass exchangers Written by a first class expert in the field of advanced methods in Complexity and Complex Thermo-Economic Systems Stanislaw Sieniutycz, 2019-11-24 Complexity and Complex Thermoeconomic 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 Sustainable Process Design and Optimization Dominic C. Y. Foo, Mahmoud M. El-Halwagi, Raymond R. Tan, 2012 This book is a compilation of the various recently developed techniques emphasizing better chemical processes and products with state of the art contributions by world renowned leaders in process design and optimization It covers various areas such as grass roots design retrofitting continuous and batch processing energy efficiency separations and pollution prevention striking a balance between fundamental techniques and applications The book also contains industrial applications and will serve as a good compilation of recent industrial experience for which the process design and optimization techniques were applied to enhance sustainability Academic researchers and industrial practitioners will find this book useful as a review of systematic approaches and best practices in sustainable design and optimization of industrial processes. The book is accompanied by some electronic supplements i e models and programs for selected chapters Energy Research Abstracts ,1980 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and

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