

Molecular Engineering Thermodynamics Cambridge Series In Chemical Engineering

Chao Zhu, Liang-Shih Fan, Zhao Yu

Molecular Engineering Thermodynamics Cambridge Series In Chemical Engineering:

Molecular Engineering Thermodynamics Juan J. de Pablo, Jay D. Schieber, 2014-07-10 Building up gradually from first principles this unique introduction to modern thermodynamics integrates classical statistical and molecular approaches and is especially designed to support students studying chemical and biochemical engineering In addition to covering traditional problems in engineering thermodynamics in the context of biology and materials chemistry students are also introduced to the thermodynamics of DNA proteins polymers and surfaces It includes over 80 detailed worked examples covering a broad range of scenarios such as fuel cell efficiency DNA protein binding semiconductor manufacturing and polymer foaming emphasizing the practical real world applications of thermodynamic principles more than 300 carefully tailored homework problems designed to stretch and extend students understanding of key topics accompanied by an online solution manual for instructors and all the necessary mathematical background plus resources summarizing commonly used symbols useful equations of state microscopic balances for open systems and links to useful online tools and datasets Dynamics of Multiphase Flows Chao Zhu, Liang-Shih Fan, Zhao Yu, 2021-06-17 Address physical principles and unified theories governing multiphase flows with methods applications and problems From Collective Beings to Ouasi-Systems Gianfranco Minati, Eliano Pessa, 2018-01-29 This book outlines a possible future theoretical perspective for systemics its conceptual morphology and landscape while the Good Old Fashioned Systemics GOFS era is still under way The change from GOFS to future systemics can be represented as shown in the book title by the conceptual change from Collective Beings to Quasi systems With the current advancements problems and approaches occurring in contemporary science systemics are moving beyond the traditional frameworks used in the past From Collective Beings to Coherent Quasi Systems outlines a conceptual morphology and landscape for a new theoretical perspective for systemics introducing the concept of Quasi systems Advances in domains such as theoretical physics philosophy of science cell biology neuroscience experimental economics network science and many others offer new concepts and technical tools to support the creation of a fully transdisciplinary General Theory of Change This circumstance requires a deep reformulation of systemics without forgetting the achievements of established conventions The book is divided into two parts Part I examines classic systemic issues from new theoretical perspectives and approaches A new general unified framework is introduced to help deal with topics such as dynamic structural coherence and Quasi systems This new theoretical framework is compared and contrasted with the traditional approaches Part II focuses on the process of translation into social culture of the theoretical principles models and approaches introduced in Part I This translation is urgent in post industrial societies where emergent processes and problems are still dealt with by using the classical or non systemic knowledge of the industrial phase Continuous Biopharmaceutical Processes David Pfister, Lucrèce Nicoud, Massimo Morbidelli, 2018-10-11 Provides a coherent and critical view on the potential benefits of various continuous processes in the biopharmaceutical industry Theory and

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