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Towards Sustainable Chemical Processes describes a comprehensive framework for sustainability assessment, design and the processes optimization of chemical engineering. Beginning with the analysis and assessment in the early stage of chemical products initiating, this book focuses on the combination of science sustainability and process system engineering, involving mathematical models, industrial ecology, circular economy, energy planning, process integration and sustainability engineering. All chapters throughout answered two fundamental questions in depth: (1) what tools and models are available to be used to assess and design sustainable chemical processes, (2) what the core theories and concepts are to get into the sustainable chemical process fields. Therefore, Towards Sustainable Chemical Processes is an indispensable guide for chemical engineers, researchers, students, practitioners and consultants in sustainability related area. Provides innovative, novel and comprehensive methods and models for sustainability assessment, design and optimization, and synthesis and integration of chemical engineering processes. Combines sustainability science with process system engineering. Integrates mathematical models, industrial ecology, circular economy, energy planning, process integration and sustainability engineering. Includes new case studies related to renewable energy, resource management, process synthesis and process integration

A guide to the theoretical underpinnings and practical applications of chemically reacting flow. Chemically Reacting Flow: Theory, Modeling, and Simulation, Second Edition combines fundamental concepts in fluid mechanics and physical chemistry while helping students and professionals to develop the analytical and simulation skills needed to solve real-world engineering problems. The authors clearly explain the theoretical and computational building blocks enabling readers to extend the approaches described to related or entirely new applications. New to this Second Edition are substantially revised and reorganized coverage of topics treated in the first edition. New material in the book includes two important areas of

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active research: reactive porous-media flows and electrochemical kinetics. These topics create bridges between traditional fluid-flow simulation approaches and transport within porous-media electrochemical systems. The first half of the book is devoted to multicomponent fluid-mechanical fundamentals. In the second half the authors provide the necessary fundamental background needed to couple reaction chemistry into complex reacting-flow models. Coverage of such topics is presented in self-contained chapters, allowing a great deal of flexibility in course curriculum design. * Features new chapters on reactive porous-media flow, electrochemistry, chemical thermodynamics, transport properties, and solving differential equations in MATLAB * Provides the theoretical underpinnings and practical applications of chemically reacting flow * Emphasizes fundamentals, allowing the analyst to understand fundamental theory underlying reacting-flow simulations * Helps readers to acquire greater facility in the derivation and solution of conservation equations in new or unusual circumstances * Reorganized to facilitate use as a class text and now including a solutions manual for academic adopters Computer simulation of reactive systems is highly efficient and cost-effective in the development, enhancement, and optimization of chemical processes. Chemically Reacting Flow: Theory, Modeling, and Simulation, Second Edition helps prepare graduate students in mechanical or chemical engineering, as well as research professionals in those fields take utmost advantage of that powerful capability.

This publication brings together the latest research findings in the key area of chemical process control; including dynamic modelling and simulation - modelling and model validation for application in linear and nonlinear model-based control: nonlinear model-based predictive control and optimization - to facilitate constrained real-time optimization of chemical processes; statistical control techniques - major developments in the statistical interpretation of measured data to guide future research; knowledge-based v model-based control - the integration of theoretical aspects of control and optimization theory with more recent developments in artificial intelligence and computer science.

This volume presents a sound foundation for understanding abstract concepts (physical properties such as fugacity, or chemical processes, such as distillation) of phase and reaction equilibria, and shows you how to apply these concepts to solve practical problems using numerous, clear examples. The book encourages the use of MATHCAD to write programs specific to each problem, enabling you to easily track mistakes and understand the order of magnitude of the various quantities involved. Provides guidelines in order to choose the 'best' equation of state suitable for the particular situation Includes up-to-date information, comprehensive in-depth content and current examples in each chapter Provides the right tools in order to and encourages you to use MATHCAD to write your own specific programs Includes many well organized problems (with solutions), which are extensions of the examples enabling conceptual understanding to quantitative/real problem solving Includes all mathematical background required for solving problems encountered in phase and reaction equilibria Provides a Solutions Manual (for instructors in pdf form) allowing the use of the book in advanced thermodynamic courses

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