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optimization of processes that change the physical state or the composition of materials" (Westerberg, 1998). PSE has traditionally been concerned with "understanding and developing systematic procedures for design, control and operation of chemical processes" (Sargent, 1991). PSE can be identified with a major paradigm in Chemical Engineering.

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Chemical process optimization. Our team focuses on maximizing potential economics of a chemical process by leveraging decision variables while staying within known constraints to provide an economic, safer, and more convergent way of manufacturing chemical process.

This book is an update of a successful first edition that has been extremely well received by the experts in the chemical process industries. The authors explain both the theory and the practice of optimization, with the focus on the techniques and software that offer the most potential for success and give reliable results. Applications case studies in optimization are presented with new examples taken from the areas of microelectronics processing and molecular modeling. Ample references are cited for those who wish to explore the theoretical concepts in more detail.

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Process engineering can potentially provide the means to develop economically viable and environmentally friendly technologies for the production of fuel ethanol. Focusing on a key tool of process engineering, Process Synthesis for Fuel Ethanol Production is a comprehensive guide to the design and analysis of the most advanced technologies for fuel

Froth Flotation: A Century of Innovation comprehensively describes the state-of-the-art research and practice in mineral froth flotation as known and practiced a century after its introduction. Recognized experts from around the world provide in-depth coverage on the historical aspects of flotation; flotation fundamentals; flotation chemistry; flotation cells, modeling, and simulation; and flotation plant practice. This commemorative volume is an invaluable reference for industry professionals, researchers, and graduate students. It continues a distinguished series that began with Froth Flotation: 50th Anniversary Volume (1962) and the A.M. Gaudin Memorial Volume (1976). The enclosed CD supplements the book with presentations from the Centenary of Flotation Symposium managed by the Australasian Institute of Mining and Metallurgy.

Comprehensive Chemometrics, Second Edition features expanded and updated coverage, along with new content that covers advances in the field since the previous edition published in 2009. Subject of note include updates in the fields of multidimensional and megavariate data analysis, omics data analysis, big chemical and biochemical data analysis, data fusion and sparse methods. The book follows a similar structure to the previous edition, using the same section titles to frame articles. Many chapters from the previous edition are updated, but there are also many new chapters on the latest developments. Presents integrated reviews of each chemical and biological method, examining their merits and limitations through practical examples and extensive visuals Bridges a gap in knowledge, covering developments in the field since the first edition published in 2009 Meticulously organized, with articles split into 4 sections and 12 sub-sections on key topics to allow students, researchers and professionals to find relevant information quickly and easily Written by academics and practitioners from various fields and regions to ensure that the knowledge within is easily understood and applicable to a large audience Presents integrated reviews of each chemical and biological method, examining their merits and limitations through practical examples and extensive visuals Bridges a gap in knowledge, covering developments in the field since the first edition published in 2009 Meticulously organized, with articles split into 4 sections and 12 sub-sections on key topics to allow students, researchers and professionals to find relevant information quickly and easily Written by academics and practitioners from various fields and regions to ensure that the knowledge within is easily understood and applicable to a large audience

In the past decades, much progress has been made in the field of walking robots. The current state of technology makes it possible to create humanoid robots that nearly walk like a human being, climb stairs, or avoid small - stacles. However, the dream of a robot running as fast and as elegantly as a human is still far from becoming reality. Control of such fast motions is still a big technological issue in robotics, and the maximum running speed of contemporary robots is still much smaller than that of human track runners. The conventional control approach that most of these robots are based on does not seem to be suitable to increase the running speeds up to a biological level. In order to address this challenge, we invited an interdisciplinary community of researchers from robotics, biomechanics, control engineering and applied mathematics to come together in Heidelberg at the Symposium "Fast Motions in Biomechanics and Robotics – Optimization & Feedback Control" which was held at the International Science Forum (IWH) on September 7–9, 2005. The number of participants in this symposium was kept small in order to promote discussions and enable a fruitful exchange of ideas.

Approaching sustainability from the perspectives of engineering and multiple scientific disciplines, this book incorporates the concepts of intergenerational equity and ecological capabilities, while promoting scientific rigor for the analysis of sustainability and the use of appropriate metrics to determine the comparative merits of alternatives. The chapters are organized around the key non-technological themes of sustainable industrial chemistry and provide an overview of the managerial principles to enhance sustainability in the chemicals sector. The book strives to provide an intellectual forum and stimulus for defining the roles chemical engineers can play in achieving sustainable development. Suitable for industry and graduate education, this is the one-stop guide to greener, cleaner, economically viable and more efficient chemical industries.

As the chemical process industry is among the most energy demanding sectors, chemical engineers are endeavoring to contribute towards sustainable future. Due to the limitation of fossil fuels, the need for energy independence, as well as the environmental problem of the greenhouse gas effect, there is a large increasing interest in the research and development of chemical processes that require less capital investment and reduced operating costs and lead to high eco-efficiency. The use of heat pumps is a hot topic due to many advantages, such as low energy requirements as well as an increasing number of industrial applications. Therefore, in the current book, authors are focusing on use of heat pumps in the chemical industry, providing an

overview of heat pump technology as applied in the chemical process industry, covering both theoretical and practical aspects: working principle, applied thermodynamics, theoretical background, numerical examples and case studies, as well as practical applications. The worked-out examples have been included to instruct students, engineers and process designers about how to design various heat pumps used in the industry. Reader friendly resources namely relevant equations, diagrams, figures and references that reflect the current and upcoming heat pump technologies, will be of great help to all readers from the chemical and petrochemical industry, biorefineries and other related areas.

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