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Tumi Dukho Dile Kasto Dile Man To Dilena Sad Song*n?rada muni b?*?y v??? *v?dhik?-rama?a'-n'?me Mian sab kalam mian Saab Punjabi Sufi Kalam Kalam mian Muhammad bakhsh Punjabi Kalam* 2017 *Amiya K Jana*

A Novel Combination of Internal and External Heat Integrations in Batch Distillation: Application to a Reactive System by Maiti, D. and Jana, A. K. Applied Thermal Engineering, 59, 405-413 (2013) 39. Improving Energy Efficiency and Cost-Effectiveness of Batch Distillation for Separating Wide Boiling Constituents.

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Amar Nath Samanta. Amiya K. Jana. Gade Pandu Rangaiah

Amiya K. Jana - researchr alias

About the Author Amiya K. Jana received his BE degree in chemical engineering in 1998 from Jadavpur University, M.Tech. in chemical engineering in 2000 from IIT Kharagpur, and Ph.D. in chemical engineering in 2004 from IIT Kharagpur. Presently, Dr. Jana is Assistant Professor at IIT Kharagpur.

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This comprehensive and thoroughly revised text, now in its second edition, continues to present the fundamental concepts of how mathematical models of chemical processes are constructed and demonstrate their applications to the simulation of two of the very important chemical engineering systems: the chemical reactors and distillation systems. The book provides an integrated treatment of process description, mathematical modelling and dynamic simulation of realistic problems, using the robust process model approach and its simulation with efficient numerical techniques. Theoretical background materials on activity coefficient models, equation of state models, reaction kinetics, and numerical solution techniques—needed for the development of mathematical models—are also addressed in the book. The topics of discussion related to tanks, heat exchangers, chemical reactors (both continuous and batch), biochemical reactors (continuous and fed-batch), distillation columns (continuous and batch), equilibrium flash vaporizer, and refinery debutanizer column contain several worked-out examples and case studies to teach students how chemical processes can be measured and monitored using computer programming. The new edition includes two more chapters—Reactive Distillation Column and Vaporizing Exchangers—which will further strengthen the text. This book is designed for senior level undergraduate and first-year postgraduate level courses in “Chemical Process Modelling and Simulation”. The book will also be useful for students of petrochemical engineering, biotechnology, and biochemical engineering. It can serve as a guide for research scientists and practising engineers as well.

This comprehensive and thoroughly revised text, now in its third edition, continues to present the fundamental concepts of how mathematical models of chemical processes are constructed and demonstrate their applications to the simulation of three of the very important chemical engineering systems: the chemical reactors, distillation systems and vaporizing processes. The book provides an integrated treatment of process description, mathematical modelling and dynamic simulation of realistic problems, using the robust process model approach and its simulation with efficient numerical techniques. Theoretical background materials on activity coefficient models, equation of state models, reaction kinetics, and numerical solution techniques--needed for the development and simulation of mathematical models--are also addressed in the book. The topics of discussion related to tanks, heat exchangers, chemical reactors (both continuous and batch), biochemical reactors (continuous and fed-batch), distillation columns (continuous and batch), equilibrium flash vaporizer, refinery debutanizer column, evaporator, and steam generator contain several worked-out examples and case studies to teach students how chemical processes are operated, characterized and monitored using computer programming. New to this Edition The inclusion of following three new chapters on: Gas Absorption Liquid-Liquid Extraction Column Once-Through Steam Generator will further strengthen the text. This book is designed for senior level undergraduate and first-year postgraduate level courses in 'Chemical Process Modelling and Simulation'. The book will also be useful for students of petrochemical engineering, biotechnology, and biochemical engineering. It can serve as a guide for research scientists and practising engineers as well.

Solving the model structure with a large equation set becomes a challenging task due to the involvement of several complex processes in an industrial plant. To overcome these challenges, various process flow sheet simulators are used. This book, now in its second edition, continues to discuss the simulation, optimization, dynamics and closed-loop control of a wide variety of chemical processes using the most popular commercial flow sheet simulator ASPENTM. A large variety of chemical units including flash drum, continuous stirred tank reactor, plug flow reactor, petroleum refining column, heat exchanger, absorption tower, reactive distillation, distillation train, and monomer production unit are thoroughly explained. The book acquaints the students with the simulation of large chemical plants with several single process units. With the addition of the new sections, additional information and plenty of illustrations and exercises, this text should prove extremely useful for the students. Designed for the students of chemical engineering at the senior under-graduate and postgraduate level, this book will also be helpful to research scientists and practising engineers as a handy guide to simulation of chemical processes. NEW TO THIS EDITION : Section 1.3 on Stepwise Aspen Plus Simulation of Flash Drums is thoroughly updated (Chapter 1) Section 3.2 on Aspen Plus Simulation of the Binary Distillation Columns is updated, a new section on Simulation of a Reactive Distillation Column is added (Section 3.6), and a new topic on Column Sizing is introduced (Chapter 3) A new section on Aspen Simulation of a Petlyuk Column with Streams Recycling is included (Chapter 4)

Amiya K. Jana ...

For reasons both financial and environmental, there is a perpetual need to optimize the design and operating conditions of industrial process systems in order to improve their performance, energy efficiency, profitability, safety and reliability. However, with most chemical engineering application problems having many variables with complex inter-relationships, meeting these optimization objectives can be challenging. This is where Multi-Objective Optimization (MOO) is useful to find the optimal trade-offs among two or more conflicting objectives. This book provides an overview of the recent developments and applications of MOO for modeling, design and operation of chemical, petrochemical, pharmaceutical, energy and related processes. It then covers important theoretical and computational developments as well as specific applications such as metabolic reaction networks, chromatographic systems, CO2 emissions targeting for petroleum refining units, ecodesign of chemical processes, ethanol purification and cumene process design. Multi-Objective Optimization in Chemical Engineering: Developments and Applications is an invaluable resource for researchers and graduate students in chemical engineering as well as industrial practitioners and engineers involved in process design, modeling and optimization.

This edited book designs the Cognitive Computing in Human Cognition to analyze to improve the efficiency of decision making by cognitive intelligence. The book is also intended to attract the audience who work in brain computing, deep learning, transportation, and solar cell energy. Due to this in the recent era, smart methods with human touch called as human cognition is adopted by many researchers in the field of information technology with the Cognitive Computing.

Optimization has been playing a key role in the design, planning and operation of chemical and related processes for nearly half a century. Although process optimization for multiple objectives was studied by several researchers back in the 1970s and 1980s, it has attracted active research in the last 10 years, spurred by the new and effective techniques for multi-objective optimization. In order to capture this renewed interest, this monograph presents the recent and ongoing research in multi-optimization techniques and their applications in chemical engineering. Following a brief introduction and general review on the development of multi-objective optimization applications in chemical engineering since 2000, the book gives a description of selected multi-objective techniques and then goes on to discuss chemical engineering applications. These applications are from diverse areas within chemical engineering, and are presented in detail. All chapters will be of interest to researchers in multi-objective optimization and/or chemical engineering; they can be read individually and used in one’s learning and research. Several exercises are included at the end of many chapters, for use by both practicing engineers and students.

The two volume set CCIS 1030 and 1031 constitutes the refereed proceedings of the Second International Conference on Computational Intelligence, Communications, and Business Analytics, CICBA 2018, held in Kalyani, India, in July 2018. The 76 revised full papers presented in the two volumes were carefully reviewed and selected from 240 submissions. The papers are organized in topical sections on computational intelligence; signal processing and communications; microelectronics, sensors, and intelligent networks; data science & advanced data analytics; intelligent data mining & data warehousing; and computational forensics (privacy and security).

An azeotrope is a mixture of two or more compounds that cannot be separated or changed by simple distillation. This book addresses an important issue in the energy crisis: the distillation of azeotropes to improve the processing of biofuels. It describes azeotropic systems in a comprehensive, readable form, with updates on recent developments in vapor-liquid and liquid-liquid-vapor equilibrium, simulation tools, and specific examples covering the major processing options available. The text also presents methods for achieving optimum economic design and control structures, and demonstrates trade-offs between energy savings and controllability (product quality variability).

