



Chemical Process Modelling And Computer Simulation (Paperback)

By Amiya K. Jana

PHI Learning, India, 2018. Paperback. Condition: New. 3rd Revised edition. Language: English. Brand new Book. 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 EditionThe inclusion of following three new chapters on: Gas AbsorptionLiquid-Liquid Extraction ColumnOnce-Through Steam Generatorwill further strengthen the text. This book is...



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