



Process Simulation and Control Using ASPEN

By Amiya K. Jana

Paperback. Book Condition: New. Not Signed; 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, optimisation, dynamics and closed-loop control of a wide variety of chemical processes using the most popular commercial flow sheet simulator ASPEN(TM). 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 undergraduate 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...



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