Mathematical Modeling Approaches for Optimization of Chemical Processes

By Gabriela Corsano, Oscar A. Iribarren, Pio A. Aguirre

Nova Science Publishers Inc. Paperback. Book Condition: new. BRAND NEW, Mathematical Modeling Approaches for Optimization of Chemical Processes, Gabriela Corsano, Oscar A. Iribarren, Pio A. Aguirre, Mathematical modelling is a powerful tool for solving optimisation problems in chemical engineering. In this work several models are proposed aimed at helping to make decisions about different aspects of the processes lifecycle, from the synthesis and design steps up to the operation and scheduling. Using an example of the Sugar Cane industry, several models are formulated and solved in order to assess the trade-offs involved in optimisation decisions. Thus, the power and versatility of mathematical modelling in the area of chemical processes optimisation is analysed and evaluated.

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