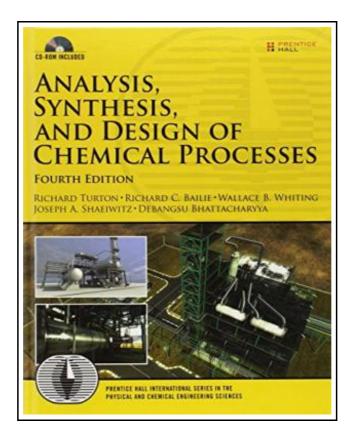
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Prentice Hall, 2012. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: The leading integrated chemical process design guide: Now with extensive new coverage and more process designs More than ever, effective design is the focal point of sound chemical engineering. Analysis, Synthesis, and Design of Chemical Processes, Fourth Edition, presents design as a creative process that integrates both the big picture and the small details-and knows which to stress when, and why. Realistic from start to finish, this updated edition moves readers beyond classroom exercises into open-ended, real-world process problem solving. The authors introduce integrated techniques for every facet of the discipline, from finance to operations, new plant design to existing process optimization. This fourth edition adds new chapters introducing dynamic process simulation; advanced concepts in steady-state simulation; extensive coverage of thermodynamics packages for modeling processes containing electrolyte solutions and solids; and a concise introduction to logic control. "What You Have Learned" summaries have been added to each chapter, and the text's organization has been refined for greater clarity. Coverage Includes Conceptualization and analysis: flow diagrams, batch processing, tracing, process conditions, and product design strategies Economic analysis: capital and manufacturing costs, financial calculations, and profitability analysis Synthesis and optimization: principles, PFD synthesis, simulation techniques, top-down and bottom-up optimization, pinch technology, and software-based control Advanced steady-state simulation: goals, models, solution strategies, and sensitivity and optimization studies Dynamic simulation: goals, development, solution methods, algorithms, and solvers Performance analysis: I/O models, tools, performance curves, reactor performance, troubleshooting, and "debottlenecking" Societal impact: ethics, professionalism, health, safety, environmental issues, and green engineering Interpersonal and communication skills: improving teamwork and group effectiveness This title draws on more than fifty years of innovative chemical engineering instruction at West Virginia University and the University of Nevada, Reno. It includes suggested curricula for...

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