



Multistage Separation Processes, Third Edition

By Fouad M. Khoury

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The development of computer-aided simulation programs for separation processes provides engineers with valuable tools to make more reliable qualitative and quantitative decisions in plant design and operation. Written by a specialist in modeling and optimization, *Multistage Separation Processes, Third Edition* clarifies the effective use of simulators by giving a conceptual analysis of the material and explaining various computation techniques.

The book accentuates performance prediction, an essential component of the efficient design and operation, of multistage separation processes. Unlike other textbooks, this book emphasizes computer modeling, expert interpretation of models, and it discusses modern simulation techniques. It presents rigorous mathematical models of separation processes, illustrated by numerous examples from a variety of applications, and demonstrates their performance under varying conditions and different operating variables. The author also shows how shortcut and graphical methods can be used to make preliminary and reliable decisions on action plans. He explains the major algorithms used for solving multi-component separations and features techniques used to combat factors that affect control and optimization of separation processes.

This third edition presents a significant amount of new information, including new material on column dynamics, batch distillation, membrane separations, dialysis, reverse osmosis, dynamic behavior, and multivariable control issues. Organized in self-contained chapters that follow a logical flow of ideas, the new edition of *Multistage Separation Processes* is an ideal textbook for advanced university students and a valuable reference for practicing engineers in the process industry and in engineering process design, particularly in the petroleum, petrochemical, and chemical industries.

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