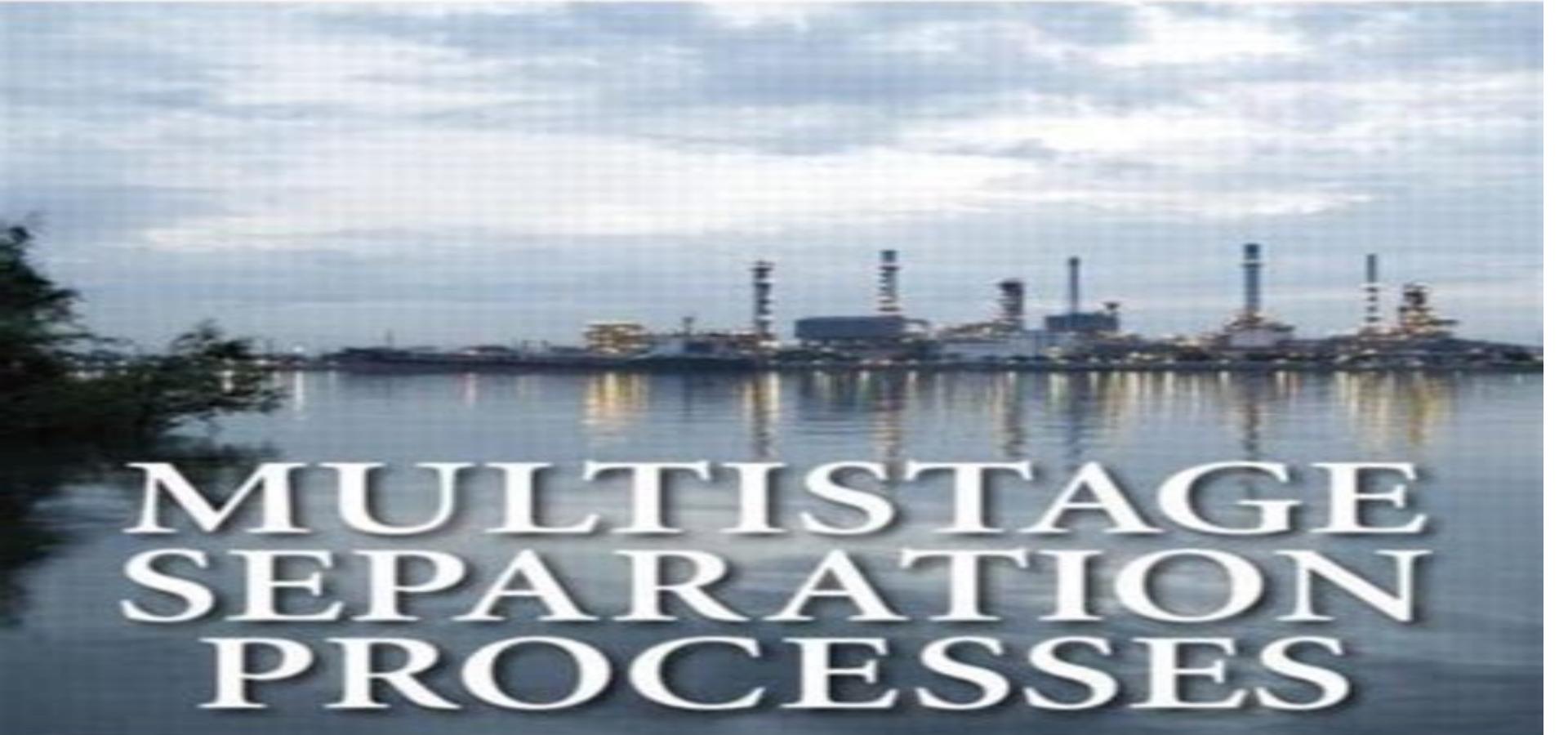


Fourth Edition



MULTISTAGE SEPARATION PROCESSES

FOUAD M. KHOURY



CRC Press
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Industrial Separation Processes André B. de Haan,H. Burak Eral,Boelo Schuur,2025-05-06 Separation processes on an industrial scale account for well over half of the capital and operating costs in the chemical industry Knowledge of these processes is key for every student of chemical or process engineering and makes this book with its wealth of exercises and solutions ideally suited to university teaching The Third edition boasts an even greater number of applied examples and updated chapters on drying adsorption and membranes

Separation Processes C. Judson King,2013-12-18 Originally published New York McGraw Hill 1971 2nd ed Includes a new introduction

Predicting the Performance of Multistage Separation Processes, Second Edition Fouad M. Khoury,1999-10-15 Multistage separation processes are essentially the heart and soul of the petroleum petrochemical and chemical industries They yield products as common as gasoline and plastics and those as specialized as medical grade pharmaceuticals Predicting the Performance of Multistage Separation Processes provides chemical engineers with solid information and insights into these processes It reaches beyond fundamental principles to focus on intuitive understanding and practical interpretation To that end it presents numerous examples from a variety of applications effectively demonstrating the performance of processes under varying conditions and the relationship among the different operating variables With major advances in computational techniques for solving complex multistage separation equations a variety of simulation programs have emerged that allow accurate and efficient prediction of multistage separation processes These are valuable and effective tools but are often hampered by a lack of understanding of the fundamentals and limitations of prediction techniques The author addresses these problems and pursues a strategy that decouples the discussion of conceptual analysis and the computational techniques Although Dr Khoury presents mathematical methods in detail he gives special attention to keeping the practical interpretation of the models in focus and emphasizes intuitive understanding He applies graphical techniques and shortcut methods wherever possible and includes industrial practice heuristics about the ranges of operating variables that will work With its updates and the addition of more than 100 new applications problems and solutions Predicting the Performance of Multistage Separation Processes Second Edition is ideal for a methodical study of separation processes and as a reference for the fundamental principles and shortcuts useful to the working professional

Handbook of Petroleum Refining Processes, Fourth Edition Robert A. Meyers,2016-03-18 This fully revised resource presents the latest technologies and processes for petroleum refining from the world's leading producers Handbook of Petroleum Refining Processes has become a key reference in the chemical and petroleum engineering markets The book is unique in that it presents licensable technologies for the refining of petroleum

and production of environmentally acceptable fuels and petrochemical intermediates The new edition covers the gamut of global refining technologies in light of recent changes to the sources of these fuels as well as the most up to date global environmental regulations Contributions come from such major licensors of petroleum refining technology as UOP Inc Shell ExxonMobil Research and Engineering Company EMRE Chevron Lummus Global Phillips 66 Belco BP and others The new edition shifts its emphasis to accommodate the increased production of shale gas and shale oil which is changing the overall mix of hydrocarbon feeds Declining conventional crude production and the need for regional energy independence continues to drive demand to use lower cost alternate feedstocks such as coal shale oil and heavy crude To use alternate feedstocks in existing refineries many processes need to be modified The increase in diesel demand and stricter fuel specifications is driving refiners to look for ways to produce higher yields from existing assets The book reflects these factors plus the increase in residue conversion hydrocracking evolving as a primary conversion process and hydrotreating increasing as a way to treat virgin and cracked middle distillate streams Offers detailed description of process chemistry and thermodynamics and product by product specifications of plants Contributors are drawn from the largest petroleum producers in the world including Chevron Shell ExxonMobil and UOP Covers the very latest technologies in the field of petroleum refining processes and the shift toward shale gas and oil A complete listing and explanation of licensable global technologies for the refining of petroleum and the production of environmentally acceptable fuels and petrochemical intermediates Provides product by product specifications and process economics capital investment annualized capital costs and the price range for each product

Chemical Engineering ,2005 Handbook of Separation Techniques for

Chemical Engineers Philip A. Schweitzer,1988 **Chemical Engineering Design** Ray Sinnott,Gavin Towler,2019-05-26

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Computation of Multistage Separation Processes. [By] D.N. Hanson ... John H. Duffin ... Graham F. Somerville Donald Norman HANSON,John H. DUFFIN,Graham F. SOMERVILLE,1962 Equilibrium-Stage Separation Operations in Chemical Engineering Ernest J. Henley,J. D. Seader,1981 Uses a large number of industrially significant problems to convey an in depth understanding of modern calculation procedures Includes numerous topical examples and problems and both conventional and SI units **Hydrocarbon Processing** ,1971 Catalog of Copyright Entries. Fourth Series Library of Congress. Copyright Office,1962 **Separation Process Principles** J. D. Seader,Ernest J. Henley,D. Keith Roper,2020-05-07 Separation Process Principles with Applications Using Process Simulator 4th EMEA Edition is the most comprehensive and up to date treatment of the major separation operations in the chemical industry The 4th edition focuses on using process simulators to design separation processes and prepares readers for professional practice **General Catalogue of Printed Books** British Museum. Department of Printed Books,1959 **Fourth International Conference on Foundations of Computer-Aided Process Design** Lorenz T. Biegler,Michael F. Doherty,1995 Topics of the conference focused on the integration of process design across subsystems downstream concerns such as operability safety and the environment and the opportunities and challenges in design posed by continuous advances in computer hardware and software environments **New Technical Books** New York Public Library,1981 Technique of Organic Chemistry: Distillation Arnold Weissberger,1949

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