

J M Douglas Conceptual Design Of Chemical Processes

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Optimization of Chemical Processes Conceptual Design of Chemical Processes Chemical Process Design Chemical Process Equipment Shreve's Chemical Process Industries Introduction to Chemical Processes: Principles, Analysis, Synthesis Chemical Process Equipment - Selection and Design (Revised 2nd Edition) Process Analysis and Design for Chemical Engineers Developing An Industrial Chemical Process Industrial Chemical Process Design, 2nd Edition Chemical Process and Design Handbook Chemical Process Industries Industrial Chemical Process Design Introduction to Chemical Process Fundamentals and Design Conceptual Design Chemical Processes Optimization of Chemical Processes Chemical Engineering Design Project Introduction to Chemical Processes Chemical Process and Design Handbook Chemical Process Computations Thomas F. Edgar James Merrill Douglas Robin Smith James R. Couper Randolph Norris Shreve Regina M. Murphy James R. Couper William Resnick Joseph Mizrahi Douglas Erwin James Speight Randolph Norris Shreve Douglas Erwin Kenneth A. Solen James Douglas T. F. Edgar Martyn S Ray Regina M. Murphy James G. Speight Raghu Raman

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written by a recognized authority in the area of optimization software this text offers an array of information on the latest advances in optimization techniques explaining both theory and practice specializes in non linear programming mixed integer programming and global optimization ample references explore theoretical concepts in more detail

this text explains the concepts behind process design it uses a case study approach guiding readers through realistic design problems and referring back to these cases at the end of each chapter throughout the author uses shortcut techniques that allow engineers to obtain the whole focus for a design in a very short period generally less than two days

chemical process equipment is a results oriented reference for engineers who specify design maintain or run chemical and process plants this book delivers information on the selection sizing and operation of process equipment in a format that enables quick and accurate decision making on standard process and equipment choices saving time improving productivity and building understanding coverage emphasizes common real world equipment design rather than experimental or esoteric and focuses on maximizing performance legacy reference for chemical and related engineers who work with vendors to design specify and make final equipment selection decisions copious examples of successful applications with supporting schematics and data to illustrate the functioning and performance of equipment provides equipment rating forms and manufacturers data worked examples valuable shortcut methods and rules of thumb to demonstrate and support the design process heavily illustrated with line drawings and schematics to aid understanding as well as graphs and tables to illustrate performance data

introduction to chemical processes principles analysis synthesis enhances student understanding of the connection between the chemistry and the process users will find strong coverage of chemistry gain a solid understanding of what chemical processes do convert raw materials into useful products using energy and other resources and learn about the ways in which chemical engineers make decisions and balance constraints to come up with new processes and products the author presents material and energy balances as tools to achieve a real goal workable economical and safe chemical processes and products loaded with intriguing pedagogy this text is essential to a students first course in chemical engineering additional resources intended to guide users are also available as package options such as chemskill builder

a facility is only as efficient and profitable as the equipment that is in it this highly influential book is a powerful resource for chemical process or plant engineers who need to select design or configures plant successfully and profitably it includes updated information on design methods for all standard equipment with an emphasis on real world process design and performance the comprehensive and influential guide to the selection and design of a wide range of chemical process equipment used by engineers globally copious examples of successful applications with supporting schematics and data to illustrate the functioning and performance of equipment revised edition new material includes updated equipment cost data liquid solid and solid systems and the latest information on membrane separation technology provides equipment rating forms and manufacturers data worked examples valuable shortcut methods rules of thumb and equipment rating forms to demonstrate and support the

design process heavily illustrated with many line drawings and schematics to aid understanding graphs and tables to illustrate performance data

the development and implementation of a new chemical process involves much more than chemistry materials and equipment it is a very complex endeavor and its success depends on the effective interactions and organization of professionals in many different positions scientists chemical engineers managers attorneys economists and specialists

written by a hands on industry consultant and featuring more than 200 illustrations

control chemical processes to get the results you want invaluable to chemical and environmental engineers as well as process designers chemical process and design handbook shows you how to control chemical processes to yield desired effects efficiently and economically the book examines each of the major chemical processes such as reactions separations mixing heating cooling pressure change and particle size reduction and enlargement in logically arranged alphabetical chapters providing you with an understanding of the essential qualitative analysis of each the handbook from expert james speight emphasizes chemical conversions chemical reactions applied to industrial processing provides easy to understand descriptions to explain reactor type and design describes the latest process developments and possible future improvements or changes

this book is a true engineer s toolkit providing the solutions to some of the most complex problems in chemical process design sizing equipment estimating cost for modular packages and performing such operations as liquid liquid extraction and gas in liquid separation vessel sizing and rating complex operations and formulas are presented and explained in an easy to understand format industrial chemical process design provides a step by step tutorial for authoring tailor made visual basic programs

this new edition follows the original format which combines a detailed case study the production of phthalic anhydride with practical advice and comprehensive background information guiding the reader through all major aspects of a chemical engineering design the text includes both the initial technical and economic feasibility study as well as the detailed design stages each aspect of the design is illustrated with material from an award winning student design project the book embodies the learning by doing approach to design the student is directed to appropriate information sources and is encouraged to make decisions at each stage of the design process rather than simply following a design method thoroughly revised updated and expanded the accompanying text includes developments in important areas and many new references

introduction to chemical processes principles analysis synthesis is intended for use in an introductory one semester course for students in chemical engineering and related disciplines this title strives to

give students a flavor of how chemical processes convert raw materials to useful products and provides students with an appreciation for the ways in which chemical engineers make decisions and balance constraints to come up with new processes and products the new edition of this title is available in connect with smartbook including end of chapter content instructor resources include instructor solutions manual textbook images and sample syllabi

control chemical processes to get the results you want invaluable to chemical and environmental engineers as well as process designers chemical process and design handbook shows you how to control chemical processes to yield desired effects efficiently and economically the book examines each of the major chemical processes such as reactions separations mixing heating cooling pressure change and particle size reduction and enlargement in logically arranged alphabetical chapters providing you with an understanding of the essential qualitative analysis of each the handbook from expert james speight emphasizes chemical conversions chemical reactions applied to industrial processing provides easy to understand descriptions to explain reactor type and design describes the latest process developments and possible future improvements or changes

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