

# CHEMICAL PROCESS EQUIPMENT DESIGN

RICHARD TURTON • JOSEPH A. SHAEIWITZ



INTERNATIONAL SERIES IN THE  
PHYSICAL AND CHEMICAL ENGINEERING SCIENCES



# Chemical Process Equipment Selection And Design

**James R. Couper, W Roy Penney, James  
R. Fair PhD**

## **Chemical Process Equipment Selection And Design:**

**Chemical Process Equipment** James R. Couper, W Roy Penney, James R. Fair, Stanley M. Walas, 2005-01-20

Comprehensive and practical guide to the selection and design of a wide range of chemical process equipment Emphasis is placed on real world process design and performance of equipment Provides examples of successful applications with numerous drawings graphs and tables to show the functioning and performance of the equipment Equipment rating forms and manufacturers questionnaires are collected to illustrate the data essential to process design Includes a chapter on equipment cost and addresses economic concerns Practical guide to the selection and design of a wide range of chemical process equipment Examples of successful real world applications are provided Fully revised and updated with valuable shortcut methods rules of thumb and equipment rating forms and manufacturers questionnaires have been collected to demonstrate the design process Many line drawings graphs and tables illustrate performance data Chapter 19 has been expanded to cover new information on membrane separation Approximately 100 worked examples are included End of chapter references also are provided

**Chemical Process Equipment** James R. Couper, W. Roy Penney, 2012-09-19 First published Chemical process equipment Stanley M Walas 1988

**Chemical Process Equipment - Selection and Design (Revised 2nd Edition)** James R. Couper, W Roy Penney, James R. Fair PhD, 2009-08-11 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 sucessfully 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

**Chemical Process Equipment** Stanley M. Walas, 1988 Wales chemical and petroleum engineering U of Kansas presents a minimum of essential theory with numerical examples to illustrate the more involved procedures Emphasis is placed on short cut methods rules of thumb and data for design by analogy a short chapter on costs of equipment is included The introductory chapters will provide a general background to process design flowsheeting and process control Annotation copyrighted by Book News Inc Portland OR

**Chemical Process Equipment** Ashish Sharma, 2015-03 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 Chemical process equipment is of two kinds custom designed and built or proprietary off the shelf For example the sizes and performance of custom equipment such as distillation towers drums and heat exchangers are derived by the process engineer on the basis of established principles and data although some mechanical details remain in accordance with safe practice codes and individual fabrication practices The process design of proprietary equipment as considered in this book establishes its required performance and is a process of selection from the manufacturers offerings often with their recommendations or on the basis of individual experience

Chemical Process Equipment, 2010 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 configure plant successfully and profitably Written by some of the most experienced and well known chemical and process engineers in the industry today this information packed volume gives the chemical or process engineer or engineering student all of the guidelines for the design and selection of chemical process equipment Comprehensive and practical its scope and emphasis on real world process design and performance of equipment will prove invaluable for day to day problem solving 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 *Chemical Process Equipment* James R. Couper, 2005 *Chemical Process Equipment: Selection & Design* Couper, 2009-06-01 **Chemical and Process Equipment Design** David Azbel, Nicholas P. Cheremisinoff, 1982 Good No Highlights No Markup all pages are intact Slight Shelfwear may have the corners slightly dented may have slight color changes slightly damaged spine **Chemical Process Equipment** James R. Couper, W Roy Penney, James R. Fair PhD, 2012-12-06 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

**CHEMICAL PROCESS EQUIPMENT SURESH C.**

MAIDARGI,2012-11-17 This text introduces the student to the practices and standards of making drawings for equipment used in chemical industries The textbook follows the Bureau of Indian Standards BIS 696 1972 specifications and methodology of equipment drawings It uses the symbolic representations of the equipment as used in the industry and provides the detailed drawings of some commonly used equipment It includes numerous orthographic and assembled views of equipment and provides several photographs to relate these drawings to equipment used in industries Finally the book includes several assignments to reinforce the concepts discussed in the text The text is intended for the undergraduate students of chemical engineering and its related branches such as polymer engineering petroleum engineering and pipeline engineering

*Handbook of Chemical Process Equipment Design* Chuk Anderson,2012-09 This handbook traces the chemical equipment designs and defensive chemical warfare fully covered and updated to bring the chemical engineer into the 21st century It offers a guide to the selection and design of a wide range of chemical process equipment

**Guidelines for Design Solutions for Process Equipment Failures** CCPS (Center for Chemical Process Safety),2010-09-17 While there is no perfect solution or absolute zero risk engineering design can significantly reduce risk potential in the CPI In Guidelines for Design Solutions to Process Equipment Failures industry experts offer their broad experience in identifying numerous solutions to the more common process equipment failures including inherent safer passive active and procedural solutions in decreasing order of robustness and reliability The book challenges the engineer to identify opportunities for inherent and passive safety features early and use a risk based approach to process safety systems specification The book is organized into three basic sections 1 a technique for making risk based design decisions 2 potential failure scenarios for 10 major processing equipment categories and 3 two worked examples showing how the techniques can be applied The equipment categories covered are vessels reactors mass transfer equipment fluid transfer equipment solids fluid separators solids handling and processing equipment and piping and piping components Special Details Hardcover book plus 3 5

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**Perry's Chemical Engineers' Handbook, Eighth Edition** Don W. Green,Robert H. Perry,2007-11-13 Get Cutting Edge Coverage of All Chemical Engineering Topics from Fundamentals to the Latest Computer Applications First published in 1934 Perry s Chemical Engineers Handbook has equipped generations of engineers and chemists with an expert source of chemical engineering information and data Now updated to reflect the latest technology and processes of the new millennium the Eighth Edition of this classic guide provides unsurpassed coverage of every aspect of chemical engineering from fundamental principles to

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**Materials and Components for Pollution and Process Equipment** Nicholas P. Cheremisinoff, Paul N. Cheremisinoff, 1993 A general reference to the materials and equipment typically used in the pollution control industries Discusses such topics as system design and equipment selection corrosion the properties of a range of materials pipes and valves seals and equipment supports Addressed to managers and engineers in charge of pollution control Annotation copy

**Process Equipment, Mechatronics Engineering and Material Science II** Ding Fang Chen, 2014-06-30 Selected peer reviewed papers from the 2nd International Conference on Process Equipment Mechatronics Engineering and Material Science PEME 2014 June 28 29 2014 Wuhan China

**Handbook of Chemical Processing Equipment** Nicholas P. Cheremisinoff, 2000-07-30 The Handbook of Chemical Process Equipment is a major reference on process equipment It provides practical understanding and description of the working principles intended applications selection criteria and fundamental design principles for equipment used throughout the process and allied chemical industries It is an important reference for engineers and in particular chemical engineers who will use such a volume throughout their studies and careers Each major unit operation and equipment associated with the operation is described in sufficient detail for the reader to obtain practical knowledge of the equipment's limitations and typical applications The book contains sufficient working examples and references for the user to refer to more in depth treatment of individual subject areas A practical reference for chemical process equipment Can be used throughout the process and allied chemical industries Unit operations and equipment described in detail

**Product and Process Design Principles** Warren D. Seider, Daniel R. Lewin, J. D. Seader, Soemantri Widagdo, Rafiqul Gani, Ka Ming Ng, 2016-05-23 The fourth edition enhanced eBook update of Product and Process Design Principles contains many new resources and supplements including new videos quiz questions with answer specific feedback and real world case studies to support student comprehension Product and Process Design Principles covers material for process design courses

in the chemical engineering curriculum demonstrating how process design and product design are interlinked and their importance for modern applications Presenting a systematic approach this fully updated new edition describes modern strategies for the design of chemical products and processes The text presents two parallel tracks product design and process design which enables instructors to easily show how product designs lead to new chemical processes and alternatively teach product design as separate course Divided into five parts the fourth edition begins with a broad introduction to product design followed by a comprehensive introduction to process synthesis and analysis Succeeding chapters cover the products and processes of design synthesis design analysis and design reports The final part of the book presents ten case studies which look at product and process designs such as for Vitamin C tablets conductive ink for printed electronics and home hemodialysis devices Effective pedagogical tools are thoroughly and consistently implemented throughout the text

**Encyclopedia of Chemical Processing and Design** John J. McKetta,1976 *Cornell University*  
*Courses of Study* Cornell University,2002

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