



Distillation Tray Fundamentals

Michael F. Doherty, Michael F. Malone



Distillation Tray Fundamentals:

Distillation Tray Fundamentals M. J. Lockett, 2009-07-16 First published in 1986 this book contains an in depth treatment on distillation tray hydrodynamics and efficiency with an emphasis on sieve and valve trays As distillation lies at the heart of the petroleum and chemical industries so at the heart of most distillation columns are the trays used to effect the separation Topics covered by the author include froth foam and spray dispersion height pressure drop flooding and weeping Procedures for predicting tray efficiency are outlined including the effects of entrainment weeping and flow maldistribution Methods for multicomponent efficiency are also covered with examples Although distillation tray hydrodynamics is probably one of the most well researched areas of chemical engineering few books cover the subject other than on an elementary level The present volume will be used by graduate students and research workers in chemical engineering and by chemical and process engineers in industry concerned with distillation and absorption *Distillation Control & Optimization: Operation Fundamentals through Software Control* Alessandro Brambilla, 2014-04-10 The latest methodologies for the control of distillation processes Written by an expert with more than 30 years of industry experience Distillation Control and Optimization Operation Fundamentals through Software Control is filled with proven solutions to control problems in distillation processes This authoritative guide discusses regulatory control and the development of advanced control systems such as multivariable predictive control Realworld examples of commercial units analyzed using the results of rigorous simulation models are included Detailed diagrams illustrate the proven methods presented in this practical resource COVERAGE INCLUDES Two product columns Multiproduct columns Liquid and vapor sidestream columns Column operating pressure Column capacity and efficiency Two product column basic control Two product column quality control Disturbances to the column Multiproduct column control Crude oil fractionators control Multivariable predictive control technology Inferentials in distillation Quality estimators of refinery distillation products *Chemical Engineering Design* Ray Sinnott, 2005-07-01 Chemical Engineering Design is one of the best known and widely adopted texts available for students of chemical engineering It deals with the application of chemical engineering principles to the design of chemical processes and equipment Revised throughout the fourth edition covers the latest aspects of process design operations safety loss prevention and equipment selection among others Comprehensive and detailed the book is supported by problems and selected solutions In addition the book is widely used by professionals as a day to day reference Best selling chemical engineering text Revised to keep pace with the latest chemical industry changes designed to see students through from undergraduate study to professional practice End of chapter exercises and solutions 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

Advances in Distillation Retrofit Nguyen Van Duc Long, Moonyong Lee, 2017-09-18 This book describes the current state of the art in the retrofit of existing distillation processes using advanced distillation techniques Highlighting concept and practical application rather than theory it emphasizes the use of advanced process integration and intensification techniques such as multi effect distillation heat pump assisted distillation thermally coupled distillation dividing wall column reactive distillation and innovative hybrid systems As a thermal separation method distillation is one of the most important and widely used technologies in the chemical process industry While it has many advantages one major drawback is its large energy requirement which can significantly influence overall plant profitability The increasing cost of energy has forced industry to reduce its energy requirement but simultaneously there has been a need to increase capacity and output due to heightened demand To accomplish this the retrofit of distillation processes to increase efficiency and output has become a crucial issue This book describes the use of advanced process integration and process intensification techniques to carry out effective distillation retrofit Written by leading researchers in distillation process process integration process intensification and process retrofit the book presents a comprehensive review of contemporary advanced distillation techniques which can be employed in grass root systems and retrofit It is a valuable source of information for undergraduate and postgraduate students of chemical engineering practicing process designers and chemical engineers

Coulson and Richardson's Chemical Engineering Ajay Kumar Ray, 2023-06-30 Coulson and Richardson's Chemical Engineering Volume 2B Separation Processes Sixth Edition covers distillation and gas absorption illustrating applications of the fundamental principles of mass transfer Several techniques including adsorption ion exchange chromatographic membrane separations and process intensification are comprehensively covered and explored Presents content converted from textbooks into fully revised reference material Provides content that ranges from foundational to technical Includes new additions such as emerging applications numerical methods and computational tools

Energy and Process Optimization for the Process Industries Frank (Xin X.) Zhu, 2013-11-25 Exploring methods and techniques to optimize processing energy efficiency in process plants Energy and Process Optimization for the Process Industries provides a holistic approach that considers optimizing process conditions changing process flowschemes modifying equipment internals and upgrading process technology that has already been used in a

process plant with success Field tested by numerous operating plants the book describes technical solutions to reduce energy consumption leading to significant returns on capital and includes an 8 point Guidelines for Success The book provides managers chemical and mechanical engineers and plant operators with methods and tools for continuous energy and process improvements

Chemical Engineering Volume 2 J H Harker, J R Backhurst, J.F. Richardson, 2013-10-22
Chemical Engineering Volume 2 covers the properties of particulate systems including the character of individual particles and their behaviour in fluids Sedimentation of particles both singly and at high concentrations flow in packed and fluidised beds and filtration are then examined The latter part of the book deals with separation processes such as distillation and gas absorption which illustrate applications of the fundamental principles of mass transfer introduced in Chemical Engineering Volume 1 In conclusion several techniques of growing importance adsorption ion exchange chromatographic and membrane separations and process intensification are described A logical progression of chemical engineering concepts volume 2 builds on fundamental principles contained in Chemical Engineering volume 1 and these volumes are fully cross referenced Reflects the growth in complexity and stature of chemical engineering over the last few years Supported with further reading at the end of each chapter and graded problems at the end of the book

Equipment for Distillation, Gas Absorption, Phase Dispersion, and Phase Separation Don W. Green, Robert H. Perry, 2007-10-26 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 chemical processes and equipment to new computer applications Filled with over 700 detailed illustrations the Eighth Edition of Perry's Chemical Engineering Handbook features Comprehensive tables and charts for unit conversion A greatly expanded section on physical and chemical data New to this edition the latest advances in distillation liquid liquid extraction reactor modeling biological processes biochemical and membrane separation processes and chemical plant safety practices with accident case histories Inside This Updated Chemical Engineering Guide Conversion Factors and Mathematical Symbols Physical and Chemical Data Mathematics Thermodynamics Heat and Mass Transfer Fluid and Particle Dynamics Reaction Kinetics Process Control Process Economics Transport and Storage of Fluids Heat Transfer Equipment Psychrometry Evaporative Cooling and Solids Drying Distillation Gas Absorption and Gas Liquid System Design Liquid Liquid Extraction Operations and Equipment Adsorption and Ion Exchange Gas Solid Operations and Equipment Liquid Solid Operations and Equipment Solid Solid Operations and Equipment Size Reduction and Size Enlargement Handling of Bulk Solids and Packaging of Solids and Liquids Alternative Separation Processes And Many Other Topics

Distillation Design Henry Z. Kister, 1992-02-22 Providing coverage of design principles for distillation processes this text contains a presentation of

process and equipment design procedures It also highlights limitations of some design methods and offers guidance on how to overcome them *Distillation and Absorption '92*, 1992 **Conceptual Design of Distillation Systems with CD-ROM** Michael F. Doherty, Michael F. Malone, 2001-01-18 This book is a pioneering effort by two of the world's top researchers The authors have fashioned a text which develops models the basis for software tools for conceptual design The book clearly addresses both analysis and design with sharp attention to supplying mathematical correctness and providing physical insight A software supplement accompanies the text in a student version **Distillation and Other Industrial Separations** Gail Nalven, 1997 A compendium of 31 recent articles selected for their usefulness to process industry practitioners and for their practical emphasis 18 articles are on distillation and 13 on other separations technologies e.g adsorption centrifugation and membranes as well as phase separators cyclones elect **Distillation** Johann G. Stichlmair, James R. Fair, 1998-09-14 A completely thorough and up to date guide to modern distillation methods and their applications Distillation has been used for separating liquid mixtures for more than two thousand years and it continues to be the most widely used separation technique in key industries throughout the industrialized world Although the basic principles have remained the same since the days of the ancient Egyptians new distillation and distillation control methods continue to be developed to satisfy a variety of highly specialized requirements Encyclopedic in scope this book provides distillation technicians with a uniquely comprehensive up to date account of distillation methods currently employed in the oil petrochemical chemical and pharmaceutical industries The authors begin by acquainting readers with the principles of vapor liquid equilibrium and the essential calculations for determining phase equilibria and equilibrium curves Subsequent chapters are devoted to practical discussions of virtually all modern distillation methods including batch single stage multistage continuous multistage batch and others A wide array of industrial applications are described including everything from crude oil distillation and argon recovery from air to water purification and ammonia recovery from wastewater Special sections deal with the separation of azeotropic mixtures and the energy demand of distillation processes Concluding chapters are devoted to detailed extremely well illustrated descriptions of practical equipment design and modern distillation control methods *Distillation Principles and Practice* is an indispensable working resource for distillation technicians working in the oil petrochemical chemical and pharmaceutical industries **Distillation Operation** Henry Z. Kister, 1990 Discussing distillation this book gives readers guidelines for operation troubleshooting and control It offers a compendium of Do's and Don'ts good practices and guidelines for trouble free design operation and troubleshooting for inlets and outlets avoiding tray damage installation commissioning and startup techniques and more [Separation Process Engineering](#) Phillip C. Wankat, 2012 The Definitive Fully Updated Guide to Separation Process Engineering Now with a Thorough Introduction to Mass Transfer Analysis *Separation Process Engineering Third Edition* is the most comprehensive accessible guide available on modern separation processes and the fundamentals of mass transfer Phillip C Wankat teaches each key concept through

detailed realistic examples using real data including up to date simulation practice and new spreadsheet based exercises Wankat thoroughly covers each of today s leading approaches including flash column and batch distillation exact calculations and shortcut methods for multicomponent distillation staged and packed column design absorption stripping and more In this edition he also presents the latest design methods for liquid liquid extraction This edition contains the most detailed coverage available of membrane separations and of sorption separations adsorption chromatography and ion exchange Updated with new techniques and references throughout Separation Process Engineering Third Edition also contains more than 300 new homework problems each tested in the author s Purdue University classes Coverage includes Modular up to date process simulation examples and homework problems based on Aspen Plus and easily adaptable to any simulator Extensive new coverage of mass transfer and diffusion including both Fickian and Maxwell Stefan approaches Detailed discussions of liquid liquid extraction including McCabe Thiele triangle and computer simulation analyses mixer settler design Karr columns and related mass transfer analyses Thorough introductions to adsorption chromatography and ion exchange designed to prepare students for advanced work in these areas Complete coverage of membrane separations including gas permeation reverse osmosis ultrafiltration pervaporation and key applications A full chapter on economics and energy conservation in distillation Excel spreadsheets offering additional practice with problems in distillation diffusion mass transfer and membrane separation

Coulson & Richardson's Chemical Engineering John Metcalfe Coulson, John Francis Richardson, 1996 Coulson and Richardson s classic series provides the student with an account of the fundamentals of chemical engineering and constitutes the definitive work on the subject for academics and practitioners Each book provides clear explanations of theory and thorough coverage of practical applications supported by numerous worked examples and problems Thus the text is designed for students as well as being comprehensive in coverage Volume 6 is an introduction to chemical engineering design This new edition has been fully revised and updated In addition the text has been reset and all diagrams redrawn resulting in a book which is clearer and easier to use than ever before This book will be valuable for not only undergraduate students but also to chemical engineers in industry and chemists and mechanical engineers who have to tackle problems arising in the process industry

Chemical Industry Digest

Distillation Troubleshooting Henry Z. Kister, 2006-04-07 THE FIRST BOOK OF ITS KIND ON DISTILLATION TECHNOLOGY The last half century of research on distillation has tremendously improved our understanding and design of industrial distillation equipment and systems High speed computers have taken over the design control and operation of towers Invention and innovation in tower internals have greatly enhanced tower capacity and efficiency With all these advances one would expect the failure rate in distillation towers to be on the decline In fact the opposite is the case the tower failure rate is on the rise and accelerating Distillation Troubleshooting collects invaluable hands on experiences acquired in dealing with distillation and absorption malfunctions making them readily accessible for those engaged in solving today s problems and avoiding

tomorrow s The first book of its kind on the distillation industry the practical lessons it offers are a must for those seeking the elusive path to trouble free distillation Distillation Troubleshooting covers over 1 200 case histories of problems diagnoses solutions and key lessons Coverage includes Successful and unsuccessful struggles with plugging fouling and coking Histories and prevention of tray packing and internals damage Lessons taught by incidents and accidents during shutdowns commissioning and abnormal operation Troubleshooting distillation simulations to match the real world Making packing liquid distributors work Plant bottlenecks from intermediate draws chimney trays and feed points Histories of and key lessons from explosions and fires in distillation towers Prevention of flaws that impair reboiler and condenser performance Destabilization of tower control systems and how to correct it Discoveries from shutdown inspections Suppression of foam and accumulation incidents A unique resource for improving the foremost industrial separation process Distillation Troubleshooting transforms decades of hands on experiences into a handy reference for professionals and students involved in the operation design study improvement and management of large scale distillation

Encyclopedia of Chemical Technology: Deuterium and tritium to elastomers, polyethers ,1993 **Chemical Engineering Education** ,1991

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