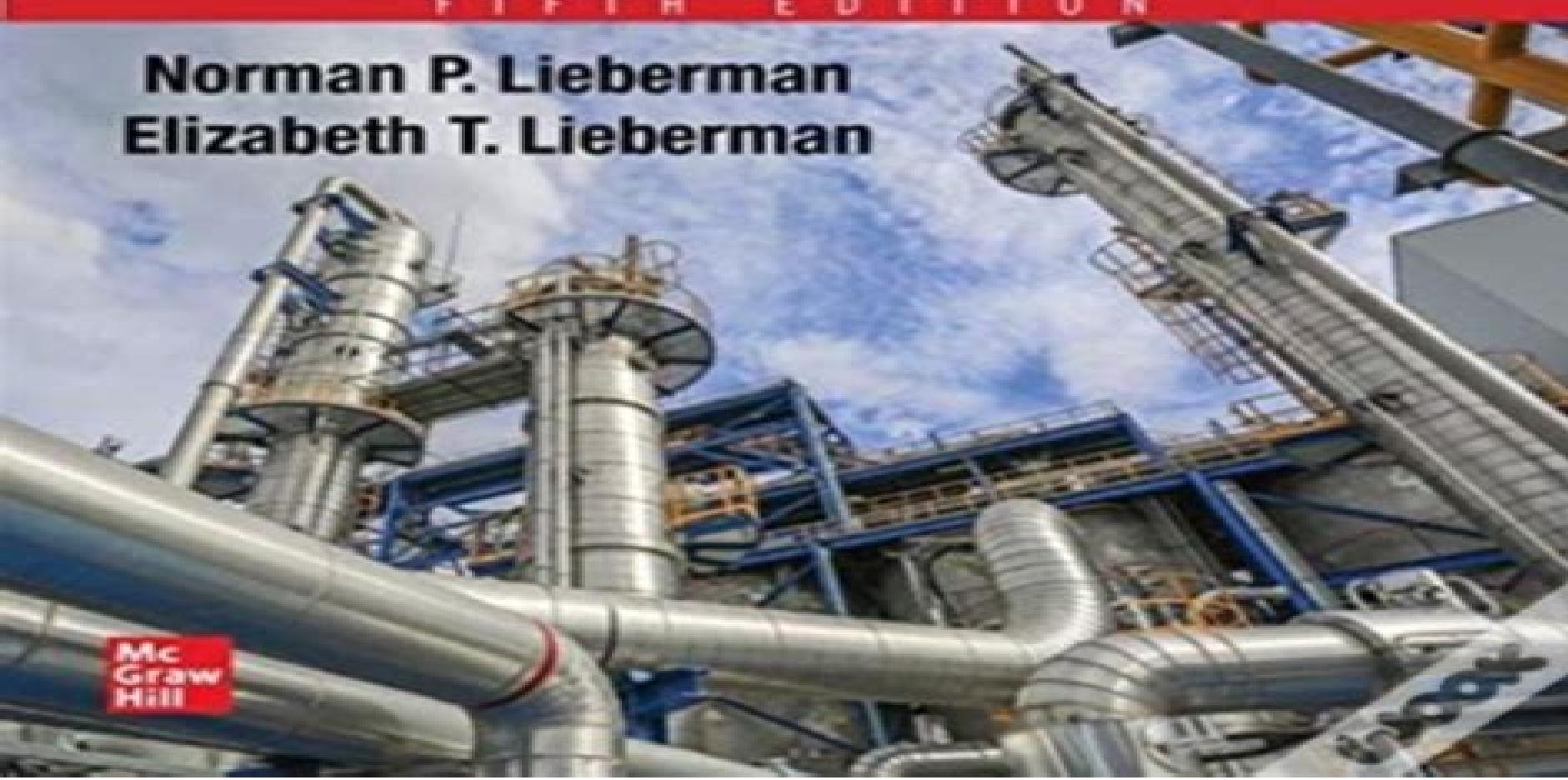


A WORKING GUIDE TO PROCESS EQUIPMENT

FIFTH EDITION

Norman P. Lieberman
Elizabeth T. Lieberman



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A Working Guide To Process Equipment

**Norman Lieberman, Elizabeth
Lieberman**

A Working Guide To Process Equipment:

Working Guide to Process Equipment, Third Edition Norman Lieberman,Elizabeth Lieberman,2008-05-18 Diagnose and Troubleshoot Problems in Chemical Process Equipment with This Updated Classic Chemical engineers and plant operators can rely on the Third Edition of A Working Guide to Process Equipment for the latest diagnostic tips practical examples and detailed illustrations for pinpointing trouble and correcting problems in chemical process equipment This updated classic contains new chapters on Control Valves Cooling Towers Waste Heat Boilers Catalytic Effects Fundamental Concepts of Process Equipment and Process Safety Filled with worked out calculations the book examines everything from trays reboilers instruments air coolers and steam turbines to fired heaters refrigeration systems centrifugal pumps separators and compressors The authors simplify complex issues and explain the technical issues needed to solve all kinds of equipment problems Comprehensive and clear the Third Edition of A Working Guide to Process Equipment features Guidance on diagnosing and troubleshooting process equipment problems Explanations of how theory applies to real world equipment operations Many useful tips examples illustrations and worked out calculations New to this edition Control Valves Cooling Towers Waste Heat Boilers Catalytic Effects and Process Safety Inside this Renowned Guide to Solving Process Equipment Problems Trays Tower Pressure Distillation Towers Reboilers Instruments Packed Towers Steam and Condensate Systems Bubble Point and Dew Point Steam Strippers Draw Off Nozzle Hydraulics Pumparounds and Tower Heat Flows Condensers and Tower Pressure Control Air Coolers Deaerators and Steam Systems Vacuum Systems Steam Turbines Surface Condensers Shell and Tube Heat Exchangers Fire Heaters Refrigeration Systems Centrifugal Pumps Separators Compressors Safety Corrosion Fluid Flow Computer Modeling and Control Field Troubleshooting Process Problems *A Working Guide to Process Equipment* Norman P. Lieberman,Elizabeth T. Lieberman,1997 This guide offers explanations of the inner workings of equipment in petroleum refineries chemical and pharmaceutical plants fertilizer plants and other continuous process facilities A Working Guide to Process Equipment, Fourth Edition Norman P. Lieberman,Elizabeth T. Lieberman,2014-03-14 The latest methods for troubleshooting and maintaining process equipment Applicable to a broad range of technicians and industries and fully updated throughout A Working Guide to Process Equipment Fourth Edition explains how to diagnose troubleshoot and correct problems with chemical and petroleum refining process equipment Nine new chapters cover Tray design details Shell and tube heat exchanger design details Relief valve system design Vapor lock and exchanger flooding in steam systems Steam generation operating and design details Wastewater strippers Thermodynamics how it applies to process equipment Centrifugal pumps reducing seal and bearing failures Hand calculations for distillation towers Vapor liquid equilibrium absorption and stripping calculations Filled with examples and illustrations this practical resource demonstrates how theory applies to solving real world plant operation problems Selected hand calculation methods are also provided Comprehensive coverage includes Distillation Tower Trays Tower Pressure

Control Distillation Towers Reboilers Tower Internals Instruments Packed Towers Steam and Condensate Systems Bubble Point and Dew Point Steam Strippers Draw Off Nozzle Hydraulics Pumparounds and Tower Heat Flows Condensers and Tower Pressure Control Air Coolers Deaerators and Steam Systems Steam Generation Wastewater Strippers Vacuum Systems Steam Turbines Surface Condensers Shell and Tube Heat Exchangers Fired Heaters Refrigeration Systems Cooling Water Systems Catalytic Effects Centrifugal Pumps Control Valves Separators Centrifugal Compressors and Surge Reciprocating Compressors Corrosion Fluid Flow in Pipes Super Fractionation Stage Computer Control Field

Troubleshooting **A Working Guide to Process Equipment, Fifth Edition** Norman P. Lieberman, 2021-03-08 The latest methods for troubleshooting and maintaining process equipment While directed particularly at chemical and petroleum refining process equipment the new edition of A Working Guide to Process Equipment revised and fully up dated throughout remains applicable to a broad range of technicians and industries and explains how to diagnose troubleshoot and correct problems without complex equations and computer simulations without ever losing sight of the importance of direct field measurements and observations Nine new chapters cover Determining the Causes of Wet Steam Distillation Process Engineering Design Errors Technical Adventures from the Past Setting Pressure Relief Valves Applying Process Engineering Technology to Natural Gas Production Reduction of Flare Losses Suppressing CO2 Emissions and Energy Conservation A Final Word The Earth's Oxygen Content Evaluating Distillation Tray Capacity Filled with examples and illustrations the new edition of this practical resource continues to demonstrate how theory applies to solving real world plant operation problems Selected hand calculation methods are also provided You'll gain insights from decades of work from the two authors solving process problems and carrying out test runs in the field revamping equipment for better efficiency and the questions and answers explored in the Lieberman's Process Equipment Troubleshooting Seminars conducted

Working Guide to Process Equipment , 2008 **A Working Guide to Process Equipment** Meenakshi Awasthi, 2015-03 This book includes the latest

diagnostic tips practical examples and detailed illustrations for pinpointing trouble and correcting problems in chemical process equipment This updated classic contains new chapters on Control Valves Cooling Towers Waste Heat Boilers Catalytic Effects Fundamental Concepts of Process Equipment and Process Safety Filled with worked out calculations the book examines everything from trays reboilers instruments air coolers and steam turbines to fired heaters refrigeration systems centrifugal pumps separators and compressors

Working Guide to Process Equipment Norman P.

Lieberman, Elizabeth T. Lieberman, 2003 Working Guide to Process Equipment 2nd Ed carefully and clearly explains all the basic technical issues that you need to know to trouble shoot most process equipment problems This guide contains a wealth of useful diagnostic tips worked out calculations practical examples and informative illustrations to help you quickly pinpoint trouble and repair typical malfunctions in Trayed and packed distillation towers Natural and forced reboilers Partial and total condensers Steam systems and deaerators Vacuum systems Fired heaters Shell and tube heat exchangers Centrifugal

compressors Gas turbines and reciprocating engines Centrifugal pumps and motor drivers In no time at all this essential problem solving manual will become your most trusted on the job tool for dealing effectively with costly equipment malfunctions

Working Guide to Process Equipment, Third Edition Norman P. Lieberman, 2008 Filled with worked out calculations chemical engineers and plant operators can rely on this updated classic for diagnostic tips practical examples and detailed illustrations for pinpointing trouble and correcting problems in chemical process equipment

Troubleshooting Vacuum Systems Norman P. Lieberman, 2012-12-03 Vacuum systems are in wide spread use in the petrochemical plants petroleum refineries and power generation plants The existing texts on this subject are theoretical in nature and only deal with how the equipment functions when in good mechanical conditions from the viewpoint of the equipment vendor Also the existing texts fail to consider the interaction of the vacuum system with the process equipment it serves and the variability of the motive steam conditions change in cooling water temperature condenser fouling and erosion of the ejectors Here are some of the many questions answered in this groundbreaking volume Why does my first stage jet make a surging sound during hot weather Why does the vacuum suddenly break I ve seen moisture condensing on the jet s body What s causing that Why do I have to steam out the drain legs from our condensers Superheated steam is making our vacuum worse Is this normal How can I locate and measure air leaks Reducing the steam pressure to my jets improves vacuum But why I can t pull the pre condenser bundle The shell side is fouling What should I do We re not getting our normal horsepower from our steam turbine Could this be a jet problem Raising the seal drum level improves vacuum Is there an explanation for this Our turbine exhaust steam pressure to our surface condenser has doubled in the last two years What should we do Restricting cooling water flow from our elevated condensers improves vacuum Is this possible What s a converging diverging ejector all about What s the difference between a barometric condenser and a surface condenser Which is better

Petroleum Refining Design and Applications Handbook, Volume 1 A. Kayode Coker, 2018-08-09 There is a renaissance that is occurring in chemical and process engineering and it is crucial for today s scientists engineers technicians and operators to stay current With so many changes over the last few decades in equipment and processes petroleum refining is almost a living document constantly needing updating With no new refineries being built companies are spending their capital re tooling and adding on to existing plants Refineries are like small cities today as they grow bigger and bigger and more and more complex A huge percentage of a refinery can be changed literally from year to year to account for the type of crude being refined or to integrate new equipment or processes This book is the most up to date and comprehensive coverage of the most significant and recent changes to petroleum refining presenting the state of the art to the engineer scientist or student Useful as a textbook this is also an excellent handy go to reference for the veteran engineer a volume no chemical or process engineering library should be without Written by one of the world s foremost authorities this book sets the standard for the industry and is an integral part of the petroleum refining renaissance It is truly a must

have for any practicing engineer or student in this area

Process Equipment Malfunctions: Techniques to Identify and Correct Plant Problems

Norman Lieberman, 2011-07-12 A PRACTICAL GUIDE TO TROUBLESHOOTING PROCESS EQUIPMENT MALFUNCTIONS Process Equipment Malfunctions offers proven techniques for finding and fixing process plant problems and contains details on failure identification Diagnostic tips examples and illustrations help to pinpoint and correct faults in chemical process and petroleum refining equipment Complex math has been omitted An essential resource for plant operators and process engineers this book is based on the author's long career in field troubleshooting process problems COVERAGE INCLUDES Distillation tray malfunctions Packed tower problems Distillation tower pressure and composition control Fractionator product stripping Pumparounds Reboiled and steam side strippers Inspecting tower internals Process reboilers thermosyphon circulation Heat exchangers Condenser limitations Air coolers Cooling water systems Steam condensate collection systems Steam quality problems Level control problems Process plant corrosion and fouling Vapor liquid separation vessels Hydrocarbon water separation and desalters Fired heaters draft and excess O₂ Disabling safety systems Vacuum systems and steam jets Vacuum surface condensers Centrifugal pump limitations Steam turbine drivers Centrifugal compressors Reciprocating compressors

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

Distillation Diagnostics Henry Z. Kister, 2025-02-11 Thorough guide on how to use various diagnostic techniques to troubleshoot problems in distillation columns Distillation Diagnostics familiarizes the reader with the multitude of tools available for diagnosing distillation and absorption tower problems and provides the reader with application guidelines derived from 40 years of real world experiences of the author The book

describes the capabilities strengths and limitations of each tool provides guidance on how to apply these tools to get the most insight and to test theories and ideas shares the experience of how to correctly interpret the results provided by each technique and guides the reader to a multitude of additional testing that they can perform to bring them closer to a correct diagnosis and an effective fix Each technique is illustrated with real case studies and an extensive dos and don ts list Written by a global authority on distillation diagnostics and troubleshooting known as The Tower Doctor by many in the field Distillation Diagnostics includes information on Possible solutions to the growing distillation failure rate despite the tremendous recent advances in distillation technologies Time tested tools and techniques for correctly diagnosing distillation problems to provide simple low cost fixes instead of unnecessary wasteful solutions thus eliminating waste and dramatically reducing CAPEX energy consumption and carbon footprint Combining the various diagnostic techniques to discard wrong theories and narrow in on the correct root cause and proper solution for various tower malfunctions Diagnosing flooding foaming plugging weeping maldistribution channeling distributor and collector overflows low efficiencies feeds and draws bottlenecks assembly mishaps tower internals damage high base level issues reactions in towers contaminants internal and external leaks startup and or shutdown difficulties Correctly interpreting gamma scan thermal scan and pressure drop data Getting the most out of testing techniques such as gamma scanning neutron backscatter wall temperature surveys pressure drop measurements column testing sketching points of transition collecting data for simulations conducting mass and energy balances analyzing operating charts and in situ water testing Turnaround tower inspections what to look for Advanced gamma scanning and thermal scanning techniques and when to apply The doctor and patient troubleshooting strategy which often constitutes the most effective most systematic and least expensive course of action Things to remember when formulating and testing theories such as the balance between theory data the laws of physics and chemistry Distillation Diagnostics is a timely essential reference on the subject for plant managers and operators production and startup supervisors and chemical process and design engineers Process/Industrial Instruments and Controls Handbook, 5th Edition Gregory K. McMillan,Douglas M. Considine,1999-10-22 The latest methods for increasing process efficiency production rate and quality Award winning editor Greg McMillan has loaded Process Industrial Instruments and Controls Handbook Fifth Edition with advice from top technical experts to help you tackle process instrument and control assignments confidently and solve problems efficiently This major revision of the bestselling on the job toolkit includes time saving tables selection ratings key points rules of thumb and hundreds of topic defining illustrations Updated to mirror the most common industry practices it brings you up to speed on smart instrumentation and the latest advances sparked by increased power and miniaturization of the microprocessor Thorough coverage of the Windows NT platform and Fieldbus distributed control systems and field based systems knowledge based operator training instrument maintenance cost reduction and an overview of the ISA IEC Fieldbus Standard help you get the most out of these major shifts in technology Perry's Chemical

Engineers' Handbook Robert H. Perry, Don W. Green, James O. Maloney, 1997 Reference work for chemical and process engineers Newest developments advances achievements and methods in various fields

A Working Guide to Shell-and-tube Heat Exchangers Stanley Yokell, 1990

Separation Process Technology Jimmy L. Humphrey, George E. Keller, 1997 Separation Process Technology is a comprehensive guide to the fundamentals selection applications and installation methods of innovative separation technologies

Separation Process Engineering Phillip C. Wankat, 2016-08-09 The Definitive Up to Date Student Friendly Guide to Separation Process Engineering With More Mass Transfer Coverage and a New Chapter on Crystallization Separation Process Engineering Fourth Edition is the most comprehensive accessible guide available on modern separation processes and the fundamentals of mass transfer In this completely updated edition Phillip C Wankat teaches each key concept through detailed realistic examples using real data including up to date simulation practice and spreadsheet based exercises Wankat thoroughly covers each separation process including flash column and batch distillation exact calculations and shortcut methods for multicomponent distillation staged and packed column design absorption stripping and more This edition provides expanded coverage of mass transfer and diffusion so faculty can cover separations and mass transfer in one course Detailed discussions of liquid liquid extraction adsorption chromatography and ion exchange prepare students for advanced work Wankat presents coverage of membrane separations including gas permeation reverse osmosis ultrafiltration pervaporation and applications An updated chapter on economics and energy conservation in distillation adds coverage of equipment costs This edition contains more than 300 new up to date homework problems extensively tested in undergraduate courses at Purdue University and the University of Canterbury New Zealand Coverage includes New chapter on crystallization from solution including equilibrium chemical purity crystal size distribution and pharmaceutical applications Thirteen up to date Aspen Plus process simulation labs adaptable to any simulator Eight detailed Aspen Chromatography labs Extensive new coverage of ternary stage by stage distillation calculations Fraction collection and multicomponent calculations for simple batch distillation New mass transfer analysis sections on numerical solution for variable diffusivity Mass transfer to expanding or contracting objects including ternary mass transfer Expanded coverage of pervaporation Updated Excel spreadsheets offering more practice with distillation diffusion mass transfer and membrane separation problems

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. **Chemical Engineering** ,2005

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