

Troubleshooting Practice in the Refinery

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Troubleshooting Practice In The Refinery

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Troubleshooting Practice In The Refinery:

Troubleshooting Practice in the Refinery Andrew Sloley, 2001 *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 **Troubleshooting Process Operations** Norman P. Lieberman, 1985 *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 [Chemical Engineering Progress](#) ,2006 *More Best Practices for Rotating Equipment* Michael S. Forsthoffer,2017-02-06 *More Best Practices for Rotating Equipment* follows Forsthoffer s multi volume *Rotating Equipment Handbooks* addressing the latest best practices in industrial rotating machinery and also including a comprehensive treatment of the basics for reference The author s famous troubleshooting approach teaches the reader proven methodologies for installation operation and maintenance of equipment and covers all phases of work with rotating equipment Reliability optimization is also addressed for the first time The book is ideal for engineers working in the design installation operation and maintenance of power machinery It is also an essential source of information for postgraduate students and researchers of mechanical and industrial engineering Presents 200 new best practices for rotating equipment Offers an easy to use reference with each chapter addressing a different type of equipment Covers all phases of work with rotating equipment from pre commissioning through maintenance [Process Control](#) Steve S. Niu,Deyun Xiao,2022-08-01 *Process Control* details the core knowledge and practical skills that a successful process control practitioner needs It explains the essential technologies that are in use in current industrial practice or which may be wanting for the future The book focuses on practical considerations not only on those that make a control solution work but also on those that prevent it from failing especially for complex control loops and plant wide control solutions After discussing the indispensable role of control in modern process industries the authors concentrate on the skills required for process analysis control design and troubleshooting One of the first books to provide a systematic approach and structured methodology for process analysis and

control design Process Control illustrates that methodology with many practical examples that cover process control equipment control and control calculations derived from real projects and applications The book uses 229 drawings and 83 tables to make the concepts it presents more intuitive and its methodology easy to follow Process Control will help the practising control engineer to benefit from a wealth of practical experience and good ideas on how to make control work in the real world and students training to take up roles in process control are shown the applied relevance of control theory in the efficient functioning of industrial plant and the considerations needed to make it work Advances in Industrial Control reports and encourages the transfer of technology in control engineering The rapid development of control technology has an impact on all areas of the control discipline The series offers an opportunity for researchers to present an extended exposition of new work in all aspects of industrial control Troubleshooting Process Operations Norman P.

Lieberman,1991 The author a highly respected consultant to major U S refineries shares information on topics such as common coke quality questions catalyst feed mixing light hydrocarbon distillation steam to heater passes haze in jet fuel optimizing excess air convection and radiation reboiler induced foaming flooding and computer control consoles Of special interest in the new section on gas drying and compression A troubleshooting checklist accompanies each chapter The author expertly combines field observations with engineering principles to unravel and solve specific process operation problems using an easy to understand style devoid of textbook terminology and excessive mathematics Contents Specific processes Process equipment Practical problems Gas drying and compression The process engineer s job Appendix **Petroleum Refineries** Dhananjay Ghosh,2021-12-28 In petroleum refineries although there are sets of standard operating procedures to operate the plants unique problems often arise which need to be tackled with engineering knowledge and experience without much loss of energy and time This process is termed troubleshooting and it saves production loss leading to profitability and sustainability of the refinery operation This book covers the ins and outs of troubleshooting in petroleum refineries with an analysis of the problems faced the fundamentals behind them and logical reasoning and illustrations to solve the problems along with lessons learnt This is the first such book on the market since the publication of one by Norman P Lieberman about 30 years ago and there has been a massive change in technology since then This book will not only enlighten practicing engineers in refineries and postgraduate students but also facilitate the creation of a knowledge bank on troubleshooting case studies helping share engineering knowledge and experiences **Process Risk and Reliability Management** Ian

Sutton,2014-09-11 In the last twenty years considerable progress has been made in process risk and reliability management particularly in regard to regulatory compliance Many companies are now looking to go beyond mere compliance they are expanding their process safety management PSM programs to improve performance not just in safety but also in environmental compliance quality control and overall profitability Techniques and principles are illustrated with numerous examples from chemical plants refineries transportation pipelines and offshore oil and gas This book helps executives

managers and technical professionals achieve not only their current PSM goals but also to make the transition to a broader operational integrity strategy The book focuses on the energy and process industries from refineries to pipelines chemical plants transportation energy and offshore facilities The techniques described in the book can also be applied to a wide range of non process industries The book is both thorough and practical It discusses theoretical principles in a wide variety of areas such as management of change risk analysis and incident investigation and then goes on to show how these principles work in practice either in the design office or in an operating facility The second edition has been expanded revised and updated and many new sections have been added including The impact of resource limitations a review of some recent major incidents the value of story telling as a means of conveying process safety values and principles and the impact of the proposed changes to the OSHA PSM standard Learn how to develop a thorough and complete process safety management program Go beyond traditional hazards analysis and risk management programs to explore a company s entire range of procedures processes and management issues Understand how to develop a culture of process safety and operational excellence that goes beyond simple rule compliance Develop process safety programs for both onshore facilities EPA OSHA and offshore platforms and rigs BSEE and to meet Safety Case requirements

Process Operations Safety Darryl M. Yoes, 2025-02-05 Provides crucial lessons in process safety operations drawing from 100 global case studies Written from an operator s perspective *Process Operations Safety* provides valuable information and education on the fundamentals of process operations safety by providing background on process safety and key leading operational management and equipment failures that have led to catastrophic process safety incidents including loss of life Written by an expert with more than five decades of industry experience this book enables readers to learn how simple jobs that they perform every day can lead to catastrophic safety incidents without proper caution protocol and attention A self learning quiz is provided near each chapter s end with answers to all questions provided in the Appendix A listing of additional resources or reference material many with internet links is also included at the end of each chapter Readers will find Principles of process safety properties of hydrocarbons vapor cloud explosions VCE and boiling liquid expanding vapor explosions BLEVE Most frequent causes of significant process safety events in refining and petrochemical industries Causal factors in over 100 global case studies of operations and incidents divided into thirty five subchapters with several examples for each explaining what happened and what could have happened Key lessons learned written in simple terms using descriptions without jargon or complicated formulas *Process Operations Safety* is an essential learning resource for petroleum refining and petrochemical plant operators line supervisors and critical support staff with field responsibility such as process and mechanical engineers along with advanced students at community and four year colleges and technical trade schools taking a process operations course

Ludwig's Applied Process Design for Chemical and Petrochemical Plants Incorporating Process Safety Incidents A. Kayode Coker, 2024-06-08 *Ludwig s Applied Process Design for Chemical and Petrochemical Plants Incorporating Process*

Safety Incidents Fifth Edition Volume One is ever evolving and provides improved techniques and fundamental design methodologies to guide the practicing engineer in designing process equipment and applying chemical processes to properly detailed hardware Like its predecessor this new edition continues to present updated information for achieving optimum operational and process conditions and avoiding problems caused by inadequate sizing and lack of internally detailed hardware The volume provides both fundamental theories where applicable and direct application of these theories to applied equations essential in the design effort This approach in presenting design information is essential for troubleshooting process equipment and in executing system performance analysis Volume 1 covers process planning flow sheeting scheduling cost estimation economic factors physical properties of liquids and gases fluid flow mixing of liquids mechanical separations process safety pressure relieving devices metallurgy and corrosion and process optimization The book builds upon Ludwig s classic text to further enhance its use as a chemical engineering process design manual of methods and proven fundamentals This new edition includes new content on three phase separation ejectors and mechanical vacuum systems process safety management HAZOP and hazard analyses and optimization of chemical process blending Provides improved design manual for methods and proven fundamentals of process design with related data and charts Covers a complete range of basic day to day petrochemical operation topics Extensively revised with new materials on Non Newtonian fluids homogeneous and heterogeneous flow and pressure drop ejectors phase separation metallurgy and corrosion and optimization of chemical process blending Presents many examples using Honeywell UniSim Design software developed and executable computer programs and Excel spreadsheet programs Includes case studies of process safety incidents guidance for troubleshooting and checklists Includes Software of Conversion Table and 40 process data sheets in excel format

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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

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