

## HAZOP on Distillation column

| Guide word | Deviation | Possible causes  | consequences   | Action record  |
|------------|-----------|--|--|--|
| No         | No flow   | <ul style="list-style-type: none"> <li>• Pipe blockage</li> <li>• Control valve shut</li> <li>• Valve fail</li> <li>• Pump failure</li> <li>• Tube blockage and leakage</li> </ul> | <ul style="list-style-type: none"> <li>• Column dry out</li> <li>• Possible dangerous concentration</li> <li>• No operation</li> </ul>                                     | <ul style="list-style-type: none"> <li>• Install low level alarm</li> <li>• Check maintenance</li> <li>• Make bypass</li> <li>• Emergency plant shut down</li> </ul> |
| Less       | Less flow | <ul style="list-style-type: none"> <li>• Pipe blockage</li> <li>• Control valve shut</li> <li>• Valve fail</li> <li>• Pump failure</li> <li>• Tube blockage and leakage</li> </ul> | <ul style="list-style-type: none"> <li>• Changes in product quality</li> </ul>   | <ul style="list-style-type: none"> <li>• Install low level alarm</li> <li>• Check maintenance</li> <li>• Make bypass</li> <li>• Emergency plant shut down</li> </ul> |
| More       | More flow | <ul style="list-style-type: none"> <li>• Control valve is fully opened</li> <li>• Increase pumping capacity</li> <li>• Control valves failure</li> </ul>                           | <ul style="list-style-type: none"> <li>• Flooding in the column</li> <li>• Change in product quality</li> <li>• Rise in bottom</li> <li>• Temperature increases</li> </ul> | <ul style="list-style-type: none"> <li>• Install high level alarm</li> <li>• Install control</li> <li>• Check maintenance</li> </ul>                                 |

# Hazop Analysis For Distillation Column

**Michael Rajnik**



## **Hazop Analysis For Distillation Column:**

*Mass Transfer in Multiphase Systems and its Applications* Mohamed El-Amin, 2011-02-11 This book covers a number of developing topics in mass transfer processes in multiphase systems for a variety of applications The book effectively blends theoretical numerical modeling and experimental aspects of mass transfer in multiphase systems that are usually encountered in many research areas such as chemical reactor environmental and petroleum engineering From biological and chemical reactors to paper and wood industry and all the way to thin film the 31 chapters of this book serve as an important reference for any researcher or engineer working in the field of mass transfer and related topics

**Measuring Climate Change to Inform Energy Transitions** Sunny E. Iyuke, 2024-03-12 Measuring Climate Change to Inform Energy Transitions A useful assessment tool to inform energy transition decisions in view of climate change Climate change is without question the greatest global challenge of the twenty first century Among its many aspects is the need for energy transitions worldwide as sustainable energy infrastructure must be rapidly created if the world is to forestall climate catastrophe Methods for measuring CO<sub>2</sub> concentration and other factors producing climate change will be critical to managing this transition and assessing its early impacts Measuring Climate Change to Inform Energy Transitions proposes a method for measuring sinusoidal gradients of increasing temperatures and CO<sub>2</sub> concentration in order to determine the ongoing impact of global warming and make recommendations This method will be critical in informing key decisions as the energy transition proceeds It is a must read for academic professional and policy stakeholders looking to meet these challenges head on Readers will also find Concrete models and mechanisms for effecting energy transition Detailed discussion of topics including vegetative sinks for carbon capture power reforms from coal carbon footprint of internal combustion engines skills required for green jobs and many more Examples and case studies to supplement quantitative analyses This book is ideal for professionals undergraduate and graduate students and researchers in the energy environmental government and engineering fields

**Guidelines for Hazard Evaluation Procedures** CCPS (Center for Chemical Process Safety), 2011-09-23 Guidelines for Hazard Evaluation Procedures 3rd Edition keeps process engineers updated on the effective methodologies that process safety demands Almost 200 pages of worked examples are included to facilitate understanding References for further reading along with charts and diagrams that reflect the latest views and information make this a completely accessible work The revised and updated edition includes information not included in previous editions giving a comprehensive overview of this topic area

Product and Process Design Principles Warren D. Seider, Daniel R. Lewin, J. D. Seader, Soemantri Widagdo, Rafiqul Gani, Ka Ming Ng, 2016-05-17 The new 4th edition of Seider's Product and Process Design Principles Synthesis Analysis and Design covers content for process design courses in the chemical engineering curriculum showing how process design and product design are inter linked and why studying the two is important for modern applications A principal objective of this new edition is to describe modern strategies for the design

of chemical products and processes with an emphasis on a systematic approach This fourth edition presents two parallel tracks 1 product design and 2 process design with an emphasis on process design Process design instructors can show easily how product designs lead to new chemical processes Alternatively product design can be taught in a separate course subsequent to the process design course

*International Conference and Workshop on Risk Analysis in Process Safety*, 1997 Comprises papers from a conference held in October 1997 and co sponsored by the US Environmental Protection Agency USEPA UK Health and Safety Executive and European Federation of Chemical Engineering The text concentrates on the current state of risk assessment as perceived from a broad selection of industry and regulatory viewpoints and introduces discussion of the recent USEPA Risk Management Program interpretation tools

*Applications of HAZOP and What-If Safety Reviews to the Petroleum, Petrochemical and Chemical Industries* Dennis P. Nolan, 1994-12-31 This publication is intended to provide guidance to HAZOP Hazard and Operability and What If review teams associated with the petroleum petrochemical and chemical industries It describes the nature responsibilities methods and documentation required in the performance of such reviews This ensures the reviews are conducted in a timely effective and professional manner as may be prescribed by a company s Process Safety Management PSM Policy This book can be used as a practical reference to prepare the safety review requirements for these industries and their process safety management systems The safety of petroleum and chemical facilities is an important part of a company s operations Recent worldwide petrochemical safety regulations and a company s own process safety management policies would require that a process hazard analysis PHA review of its existing and proposed petroleum operations be accomplished The limits of hazardous substances cited by both the US Occupational Safety and Health Administration OSHA and the Environmental Protection Agency EPA regulations dictate the applications of process safety management elements at almost all of a company s facilities These reviews are intended to reduce the probability and or consequences of a major incident that would have a detrimental impact to the employees the public s well being onsite or offsite properties the environment and most important to a company itself its continued business operation and survival Process hazard analysis reviews are not intended to identify the minor slips trips or falls these are the responsibility of the company s general safety requirements and are well established The process hazard analysis is looking for the major incidents which have the potential for severe impacts HAZOP and What If reviews are two of the most common petroleum and chemical industries qualitative methods used to conduct process hazard analyses Up to 80% of a company s process hazard analyses may consist of HAZOP and What If reviews with the remainder 20% from checklist Fault Tree Analysis Event Tree Failure Mode and Effects Analysis etc An experienced review team can use the analysis to generate possible deviations from design construction modification and operating intent that define potential consequences These consequences can then be prevented and or mitigated by the application of the appropriate safeguards

**Chemical Engineering Design** Gavin Towler, Ray Sinnott, 2008 Product Description Chemical Engineering Design is a complete course

text for students of chemical engineering Written for the Senior Design Course and also suitable for introduction to chemical engineering courses it covers the basics of unit operations and the latest aspects of process design equipment selection plant and operating economics safety and loss prevention It is a textbook that students will want to keep through their undergraduate education and on into their professional lives Provides students with a text of unmatched relevance for the Senior Design Course and Introductory Chemical Engineering Courses Teaches commercial engineering tools for simulation and costing Comprehensive coverage of unit operations design and economics Strong emphasis on HS 108 realistic commercial design projects from diverse industries A rigorous pedagogy assists learning with detailed worked examples end of chapter exercises plus supporting data and Excel spreadsheet calculations plus over 150 Patent References for downloading from the companion website Extensive instructor resources include lecture slides image bank and solutions manual for adopting instructors For further information <http://textbooks.elsevier.com>

**Chemical Process Safety** Daniel A. Crowl, Joseph F. Louvar, 2019-03-01 The 1 Process Safety Guide Now Extensively Updated for Current Industrial Processes Systems and Practices Process safety has seen a dramatic consolidation of concepts in the past few years Chemical Process Safety Fourth Edition provides students and working engineers with the understanding necessary to apply these new concepts to safely design and operate any process Long the definitive guide in the field this edition fully reflects major recent advances in process safety technology and practice Readers will find extensive new and updated coverage of relief sizing hazards identification risk assessment and many other topics Several chapters have been completely rewritten and all are substantially modified This textbook includes 50 new problems and solutions mostly in SI units and 25 new case histories Safety culture Preventive and mitigative safeguards The CCPS 20 elements of Risk Based Process Safety RBPS Toxicology industrial hygiene and source models Hazardous material dispersion Fires explosions and concepts for preventing them Chemical reactivity Reliefs and relief sizing Hazards identification and evaluation Risk analysis and assessment including Layer of Protection Analysis LOPA Safety strategies procedures designs case histories and lessons learned Crowl and Louvar link key academic concepts to modern industrial practice making this guide invaluable for all engineering students and for all working engineers Register your product for convenient access to downloads updates and or corrections as they become available See inside book for details

**The Chemical Engineer**, 2005 *Analysis, Synthesis, and Design of Chemical Processes* Richard Turton, 2012 Process design is the focal point of chemical engineering practice the creative activity through which engineers continuously improve facility operations to create products that enhance life Effective chemical engineering design requires students to integrate a broad spectrum of knowledge and intellectual skills so they can analyze both the big picture and minute details and know when to focus on each Through three previous editions this book has established itself as the leading resource for students seeking to apply what they've learned in real world open ended process problems The authors help students hone and synthesize their design skills through expert coverage of preliminary

equipment sizing flowsheet optimization economic evaluation operation and control simulation and other key topics This new Fourth Edition is extensively updated to reflect new technologies simulation techniques and process control strategies and to include new pedagogical features including concise summaries and end of chapter lists of skills and knowledge Pub desc

*Chemical Engineering Progress*, 2009      **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

*Risk Assessment and Management Handbook for Environmental, Health, and Safety Professionals* Rao V. Kolluru, 1996 A comprehensive reference that blends theory with case studies from both the US and abroad to provide practical guidance on a variety of risk assessment and management strategies which may be tailored to any particular company The volume contains 18 chapters grouped into seven parts overview and linkages 3 chapters health 4 chapters safety 2 chapters ecology 3 chapters international risk assessment 2 chapters risk communication 2 chapters and additional perspectives 2 chapters industrial ecology and comprehensive risk assessment and risk based decision making integrating risk management into business planning Annotation copyright by Book News Inc Portland OR

*Chemical Engineering Education*, 1989      **Nuclear Production of Hydrogen** OECD Nuclear Energy Agency, 2010 Hydrogen has the potential to play an important role as a sustainable and environmentally acceptable energy carrier in the 21st century This report

describes the scientific and technical challenges associated with the production of hydrogen using heat and or electricity from nuclear power plants with special emphasis on recent developments in high temperature electrolysis and the use of different chemical thermodynamic processes Economics and market analysis as well as safety aspects of the nuclear production of hydrogen are also discussed **The Assessment and Control of Major Hazards**, 1985 Nuclear Science Information of Japan. Oral Presentation, 1995 *Safety, Health, and Environmental Protection* Charles A. Wentz, 1998 Safety Health and Environmental Protection has been written to satisfy the demand for integration of safety health and environmental protection into engineering and science curriculums Practicing engineers and scientists as well as safety health and environmental professionals should find this book most helpful in broadening their skills in these vital areas

*Accidental Releases of Air Toxics* Daniel S. Davis, 1989 *Accidental Releases Of Air Toxics Handbook of Occupational Safety and Health* Louis J. DiBerardinis, 1999 Workplace safety and health is serious business In work environments where the safety and health of employees is a significant issue a major leadership challenge is to instill shared companywide values that establish the safety health and well being of each individual as a paramount concern of the business Now in its second edition the Handbook of Occupational Safety and Health originally edited by Lawrence Slote remains an essential first source for quick practical answers on this pivotal workplace issue Concise chapters detail specific issues of biological chemical and physical hazards to workplace safety and health and also address a broad spectrum of management concerns including training workers compensation liability coverage and regulatory matters While adhering to the requirements set by the Occupational Safety and Health Act OSHA of 1971 the authors of this volume advocate a progressive approach that exceeds basic compliance with established regulations Chapters emphasize not only worker protection through safe equipment and management supervision but also the safety training of workers Throughout contributors stress the need to align safety and health concerns fully with a company s business objectives offering insight into how these dual interests can be integrated With many chapters structured in an accessible how to format even those professionals inexperienced in occupational safety issues can rapidly gain a practical knowledge of the particular concerns of their industry For launching or updating a comprehensive workplace safety program or for assistance with confronting specific problems when they occur the Handbook is an ideal starting point for assessing risks and initiating proactive measures to prevent accidents in any industry A new edition of the one stop source for practical information on occupational safety and health Now expanded by more than 50 percent this Second Edition of the Handbook of Occupational Safety and Health originally edited by Lawrence Slote demonstrates how to control hazards to safety and health in many types of work environments and how to deal with injuries when they do occur It features 30 concise chapters that enable even those not formally trained in occupational safety to get up to speed quickly plus more than 150 helpful illustrations that complement the text With up to date contributions from occupational physicians public health professionals legal experts and specialists in areas ranging from chemicals and

radiation to noise exposure this comprehensive Handbook presents a complete program of effective responses to a vast range of occupational safety and health problems It includes An overview of the field and its recent advances with a clear explanation of managerial roles and responsibilities for safety and health Five sections on a variety of issues safety evaluations health assessment control practices physical hazards and legal affairs that make it simple to pinpoint information quickly How to advice step by step guidance on how to conduct an accident investigation maintain a quality medical surveillance program and much more Chapters on the prevention of specific hazards such as dermatoses heat stress radiation respiratory illness and infection Includes updated material based on chapters from Patty s Industrial Hygiene and Toxicology Fourth Edition

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