



#### Typical operating ranges

Absorber : 35 to 50 °C and 5 to 205 atm of absolute pressure

Regenerator : 115 to 126 °C and 1.4 to 1.7 atm of absolute pressure  
at tower bottom

Flow diagram of a typical amine treating process used in industrial plants

# Conceptual Design Of Chemical Process

**Donald R. Woods**



## **Conceptual Design Of Chemical Process:**

Conceptual Design of Chemical Processes James Merrill Douglas, 1988 This text explains the concepts behind process design It uses a case study approach guiding readers through realistic design problems and referring back to these cases at the end of each chapter Throughout the author uses shortcut techniques that allow engineers to obtain the whole focus for a design in a very short period generally less than two days

**Conceptual Design Chemical Processes** James Douglas, 1988-01-01 Chemical Process Design Alexandre C. Dimian, Costin Sorin Bildea, 2008-04-09 This practical how to do book deals with the design of sustainable chemical processes by means of systematic methods aided by computer simulation Ample case studies illustrate generic creative issues as well as the efficient use of simulation techniques with each one standing for an important issue taken from practice The didactic approach guides readers from basic knowledge to mastering complex flow sheets starting with chemistry and thermodynamics via process synthesis efficient use of energy and waste minimization right up to plant wide control and process dynamics The simulation results are compared with flow sheets and performance indices of actual industrial licensed processes while the complete input data for all the case studies is also provided allowing readers to reproduce the results with their own simulators For everyone interested in the design of innovative chemical processes

**Analysis, Synthesis, and Design of Chemical Processes** Richard Turton, 2009 More than ever effective design is the focal point of sound chemical engineering Analysis Synthesis and Design of Chemical Processes Third Edition presents design as a creative process that integrates both the big picture and the small details

Lees' Loss Prevention in the Process Industries Frank Lees, 2005-01-25 Over the last three decades the process industries have grown very rapidly with corresponding increases in the quantities of hazardous materials in process storage or transport Plants have become larger and are often situated in or close to densely populated areas Increased hazard of loss of life or property is continually highlighted with incidents such as Flixborough Bhopal Chernobyl Three Mile Island the Phillips 66 incident and Piper Alpha to name but a few The field of Loss Prevention is and continues to be of supreme importance to countless companies municipalities and governments around the world because of the trend for processing plants to become larger and often be situated in or close to densely populated areas thus increasing the hazard of loss of life or property This book is a detailed guidebook to defending against these and many other hazards It could without exaggeration be referred to as the bible for the process industries This is THE standard reference work for chemical and process engineering safety professionals For years it has been the most complete collection of information on the theory practice design elements equipment regulations and laws covering the field of process safety An entire library of alternative books and cross referencing systems would be needed to replace or improve upon it but everything of importance to safety professionals engineers and managers can be found in this all encompassing reference instead Frank Lees world renowned work has been fully revised and expanded by a team of leading chemical and process engineers working under the guidance of one of the

world's chief experts in this field Sam Mannan is professor of chemical engineering at Texas A principles practice codes standards data and references needed by those practicing in the field

**Model-based Conceptual Design and Optimization of Continuous Chemical Processes Under Uncertainty** Jochen Steimel, 2016

**Sustainable Chemical Processes and Products** Gijsbert Korevaar, 2004

Introduction to Chemical Engineering Uche P. Nnaji, 2019-10-10

The field of chemical engineering is undergoing a global renaissance with new processes equipment and sources changing literally every day It is a dynamic important area of study and the basis for some of the most lucrative and integral fields of science Introduction to Chemical Engineering offers a comprehensive overview of the concept principles and applications of chemical engineering It explains the distinct chemical engineering knowledge which gave rise to a general purpose technology and broadest engineering field The book serves as a conduit between college education and the real world chemical engineering practice It answers many questions students and young engineers often ask which include How is what I studied in the classroom being applied in the industrial setting What steps do I need to take to become a professional chemical engineer What are the career diversities in chemical engineering and the engineering knowledge required How is chemical engineering design done in real world What are the chemical engineering computer tools and their applications What are the prospects present and future challenges of chemical engineering And so on It also provides the information new chemical engineering hires would need to excel and cross the critical novice engineer stage of their career It is expected that this book will enhance students understanding and performance in the field and the development of the profession worldwide Whether a new hire engineer or a veteran in the field this is a must have volume for any chemical engineer's library

**European Symposium on Computer Aided Process Engineering - 14** Ana Paula Barbosa-Póvoa, Henrique Matos, 2004-05-14 This book contains papers presented at the 14th European Symposium on Computer Aided Process Engineering ESCAPE 14 The ESCAPE symposia bring together scientists students and engineers from academia and industry who are active in the research and application of Computer Aided Process Engineering The objective of ESCAPE 14 is to highlight the use of computers and information technology tools on five specific themes 1 Product and Process Design 2 Synthesis and Process Integration 3 Process Control and Analysis 4 Manufacturing Process Operations 5 New Challenges in CAPE Provides this year's comprehensive overview of the current state of affairs in the CAPE community Contains reports from the frontiers of science by the field's most respected scientists Special Keynote by Professor Roger Sargent Long Term Achievement CAPE Award winner

*Conceptual Design Stage Chemical Process Evaluation to Optimize Economic, Safety, and Pollution Prevention Attributes* Jon A. Herlevich (Jr.), 1997

*Method of Process Systems in Energy Systems: Emerging Energy Systems Part II*, 2025-10-27

Method of Process Systems in Energy Systems Emerging Energy Systems Part II Volume Nine the latest release in the Methods in Chemical Process Safety series highlights new advances in the field with this new volume presenting interesting chapters on topics such as Cybersecurity of Energy Systems Risk based alarm design and

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Collaborative and Distributed Chemical Engineering. From Understanding to Substantial Design Process Support  
 Manfred Nagl, Wolfgang Marquardt, 2008-07-23 IMPROVE stands for Information Technology Support for Collaborative and  
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 Advanced Energy Systems Division, 1999 **Process Design and Engineering Practice** Donald R. Woods, 1994 Provides  
 coordinated heuristics and engineering rules of thumb in selecting process equipment to transport use and exchange energy  
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Simulation Ranjeet J. Uttamsingh, A. Martin Wildberger, 1989 **Foundations of Molecular Modeling and Simulation**  
 Peter T. Cummings, Phillip Ray Westmoreland, Brice Carnahan, 2001 *Process Control: Designing Processes and Control*  
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