



# Chemical Process Technology

**Jacob A. Moulijn, Michiel  
Makkee, Annelies E. van Diepen**

## **Chemical Process Technology:**

Chemical Process Technology Jacob A. Moulijn, Michiel Makkee, Annelies E. van Diepen, 2013-03-21 With a focus on actual industrial processes e.g. the production of light alkenes synthesis gas fine chemicals polyethylene it encourages the reader to think out of the box and invent and develop novel unit operations and processes Reflecting today's emphasis on sustainability this edition contains new coverage of biomass as an alternative to fossil fuels and process intensification The second edition includes New chapters on Process Intensification and Processes for the Conversion of Biomass Updated and expanded chapters throughout with 35% new material overall Text boxes containing case studies and examples from various different industries e.g. synthesis loop designs Sasol I Plant Kaminsky catalysts production of Ibuprofen click chemistry ammonia synthesis fluid catalytic cracking Questions throughout to stimulate debate and keep students awake Richly illustrated chapters with improved figures and flow diagrams Chemical Process Technology Second Edition is a comprehensive introduction linking the fundamental theory and concepts to the applied nature of the subject It will be invaluable to students of chemical engineering biotechnology and industrial chemistry as well as practising chemical engineers From reviews of the first edition The authors have blended process technology chemistry and thermodynamics in an elegant manner Overall this is a welcome addition to books on chemical technology The Chemist Impressively wide ranging and comprehensive an excellent textbook for students with a combination of fundamental knowledge and technology Chemistry in Britain now Chemistry World *Introduction to Chemical Process Technology* P.J. van den Berg, W.A. DeJong, 1980-07-31 Chemical Engineering and Chemical Process Technology - Volume V Ryzhard Pohorecki, John Bridgwater, M. Molzahn. Rafiqul Gani and Crispulo Gallegos, 2010-11-30 Chemical Engineering and Chemical Process Technology is a theme component of Encyclopedia of Chemical Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty Encyclopedias Chemical engineering is a branch of engineering dealing with processes in which materials undergo changes in their physical or chemical state These changes may concern size energy content composition and or other application properties Chemical engineering deals with many processes belonging to chemical industry or related industries petrochemical metallurgical food pharmaceutical fine chemicals coatings and colors renewable raw materials biotechnological etc and finds application in manufacturing of such products as acids alkalis salts fuels fertilizers crop protection agents ceramics glass paper colors dyestuffs plastics cosmetics vitamins and many others It also plays significant role in environmental protection biotechnology nanotechnology energy production and sustainable economical development The Theme on Chemical Engineering and Chemical Process Technology deals in five volumes and covers several topics such as Fundamentals of Chemical Engineering Unit Operations Fluids Unit Operations Solids Chemical Reaction Engineering Process Development Modeling Optimization and Control Process Management The Future of Chemical Engineering Chemical Engineering Education Main Products which are then expanded

into multiple subtopics each as a chapter These five volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

**Introduction to Chemical Process Technology** Pieter J. van den Berg, Willem A. de Jong, 1983

**Chemical Process Technology** Jacob A. Moulijn, Michiel Makkee, Annelies E. van Diepen, 2001-04-06

Chemical Process Technology is a comprehensive introduction examining both the fundamental concepts and applied nature of this subject Modern process development relies on a knowledge of many different disciplines and an application and integration of this knowledge The book provides an essential bridge between the chemical sciences and the chemical industry It enables the reader to integrate fundamental knowledge of the basic disciplines to understand the most important chemical processes and to apply this knowledge and understanding to industrial processes The text examines both large scale and small scale chemical and biotechnology industries and brings to life the concepts that form the basis of the process industry Starting with a general look at the industry subsequent chapters examine different processes in greater detail Emphasis is placed on chemical reactions and the reactor both at the heart of each process but coverage also includes feed pre treatment and product separation Key Features A comprehensive and balanced introduction providing an essential link between chemistry and the chemical industry Includes problems with their solutions to encourage a fuller understanding of the project Many examples and case studies taken from a variety of modern industries Richly illustrated chapters with many clearly developed flow diagrams and numerous figures

**Process Technology** André B. de Haan, 2015-04-24

Process Technology provides a general overview about chemical and biochemical process technology It focuses on the structure and development of production processes main technological operations and the important aspects of process economics The theoretical foundations in each chapter are supplemented by case studies and examples in a clear and instructive manner to illustrate the practical aspects The author highlights operating principles reasons for application and available industrial equipment of technological operations Aim is to facilitate those without a process technology background in multi disciplinary cooperation with bio chemical engineers by providing an overview of this exciting field The textbook is organized into seven distinct parts Structure of the chemical industry and bio chemical processes Bio Chemical reaction engineering Molecular separations distillation extraction absorption adsorption Mechanical separations filtration sedimentation membranes Particle and final product manufacturing Development scale up design and safety of processes Major industrial process descriptions

*Chemical Process Design and Integration* Robin Smith, 2016-08-02

Written by a highly regarded author with industrial and academic experience this new edition of an established bestselling book provides practical guidance for students researchers and those in chemical engineering The book includes a new section on sustainable energy with sections on carbon capture and sequestration as a result of increasing environmental awareness and a companion website that includes problems worked solutions and Excel spreadsheets to enable students to carry out complex calculations

**Sodium Hypochlorite via Chemical Process - Cost Analysis - Sodium Hypochlorite E11A** Intratec,2019-09-17 This report presents a cost analysis of sodium hypochlorite production from sodium hydroxide and chlorine The process examined is a typical chemical process This report was developed based essentially on the following reference s Chlorine Oxides and Chlorine Oxygen Acids Ullmann s Encyclopedia of Industrial Chemistry 7th edition Keywords Bleach Chlorination Caustic Soda NaOH Solvay Chemicals Chlor alkali Chemical Engineering and Chemical Process Technology - Volume II Ryzhard Pohorecki,John Bridgwater,M. Molzahn. Rafiqul Gani and Crispulo Gallegos,2010-11-30 Chemical Engineering and Chemical Process Technology is a theme component of Encyclopedia of Chemical Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty Encyclopedias Chemical engineering is a branch of engineering dealing with processes in which materials undergo changes in their physical or chemical state These changes may concern size energy content composition and or other application properties Chemical engineering deals with many processes belonging to chemical industry or related industries petrochemical metallurgical food pharmaceutical fine chemicals coatings and colors renewable raw materials biotechnological etc and finds application in manufacturing of such products as acids alkalis salts fuels fertilizers crop protection agents ceramics glass paper colors dyestuffs plastics cosmetics vitamins and many others It also plays significant role in environmental protection biotechnology nanotechnology energy production and sustainable economical development The Theme on Chemical Engineering and Chemical Process Technology deals in five volumes and covers several topics such as Fundamentals of Chemical Engineering Unit Operations Fluids Unit Operations Solids Chemical Reaction Engineering Process Development Modeling Optimization and Control Process Management The Future of Chemical Engineering Chemical Engineering Education Main Products which are then expanded into multiple subtopics each as a chapter These five volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

**Chemical Process** Robin Smith,2005-06-10 This book deals with the design and integration of chemical processes emphasizing the conceptual issues that are fundamental to the creation of the process Chemical process design requires the selection of a series of processing steps and their integration to form a complete manufacturing system The text emphasizes both the design and selection of the steps as individual operations and their integration Also the process will normally operate as part of an integrated manufacturing site consisting of a number of processes serviced by a common utility system The design of utility systems has been dealt with in the text so that the interactions between processes and the utility system and interactions between different processes through the utility system can be exploited to maximize the performance of the site as a whole Chemical processing should form part of a sustainable industrial activity For chemical processing this means that processes should use raw materials as efficiently as is economic and practicable both to prevent the production of waste that can be environmentally harmful and to preserve the reserves of

raw materials as much as possible Processes should use as little energy as economic and practicable both to prevent the build up of carbon dioxide in the atmosphere from burning fossil fuels and to preserve reserves of fossil fuels Water must also be consumed in sustainable quantities that do not cause deterioration in the quality of the water source and the long term quantity of the reserves Aqueous and atmospheric emissions must not be environmentally harmful and solid waste to landfill must be avoided Finally all aspects of chemical processing must feature good health and safety practice It is important for the designer to understand the limitations of the methods used in chemical process design The best way to understand the limitations is to understand the derivations of the equations used and the assumptions on which the equations are based Where practical the derivation of the design equations has been included in the text The book is intended to provide a practical guide to chemical process design and integration for undergraduate and postgraduate students of chemical engineering practicing process designers and chemical engineers and applied chemists working in process development Examples have been included throughout the text Most of these examples do not require specialist software and can be performed on spreadsheet software Finally a number of exercises have been added at the end of each chapter to allow the reader to practice the calculation procedures

**Chemical Engineering and Chemical Process Technology - Volume III** Ryzhard Pohorecki, John Bridgwater, M. Molzahn. Rafiqul Gani and Crispulo Gallegos, 2010-11-30 Chemical Engineering and Chemical Process Technology is a theme component of Encyclopedia of Chemical Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty Encyclopedias Chemical engineering is a branch of engineering dealing with processes in which materials undergo changes in their physical or chemical state These changes may concern size energy content composition and or other application properties Chemical engineering deals with many processes belonging to chemical industry or related industries petrochemical metallurgical food pharmaceutical fine chemicals coatings and colors renewable raw materials biotechnological etc and finds application in manufacturing of such products as acids alkalis salts fuels fertilizers crop protection agents ceramics glass paper colors dyestuffs plastics cosmetics vitamins and many others It also plays significant role in environmental protection biotechnology nanotechnology energy production and sustainable economical development The Theme on Chemical Engineering and Chemical Process Technology deals in five volumes and covers several topics such as Fundamentals of Chemical Engineering Unit Operations Fluids Unit Operations Solids Chemical Reaction Engineering Process Development Modeling Optimization and Control Process Management The Future of Chemical Engineering Chemical Engineering Education Main Products which are then expanded into multiple subtopics each as a chapter These five volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

**Chemical Engineering and Chemical Process Technology - Volume IV** Ryzhard Pohorecki, John Bridgwater, M. Molzahn. Rafiqul Gani and

Crispulo Gallegos,2010-11-30 Chemical Engineering and Chemical Process Technology is a theme component of Encyclopedia of Chemical Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty Encyclopedias Chemical engineering is a branch of engineering dealing with processes in which materials undergo changes in their physical or chemical state These changes may concern size energy content composition and or other application properties Chemical engineering deals with many processes belonging to chemical industry or related industries petrochemical metallurgical food pharmaceutical fine chemicals coatings and colors renewable raw materials biotechnological etc and finds application in manufacturing of such products as acids alkalis salts fuels fertilizers crop protection agents ceramics glass paper colors dyestuffs plastics cosmetics vitamins and many others It also plays significant role in environmental protection biotechnology nanotechnology energy production and sustainable economical development The Theme on Chemical Engineering and Chemical Process Technology deals in five volumes and covers several topics such as Fundamentals of Chemical Engineering Unit Operations Fluids Unit Operations Solids Chemical Reaction Engineering Process Development Modeling Optimization and Control Process Management The Future of Chemical Engineering Chemical Engineering Education Main Products which are then expanded into multiple subtopics each as a chapter These five volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

**Chemical Process Equipment** James R. Couper,W Roy Penney,James R. Fair,Stanley M. Walas,2005-01-20 Comprehensive and practical guide to the selection and design of a wide range of chemical process equipment Emphasis is placed on real world process design and performance of equipment Provides examples of successful applications with numerous drawings graphs and tables to show the functioning and performance of the equipment Equipment rating forms and manufacturers questionnaires are collected to illustrate the data essential to process design Includes a chapter on equipment cost and addresses economic concerns Practical guide to the selection and design of a wide range of chemical process equipment Examples of successful real world applications are provided Fully revised and updated with valuable shortcut methods rules of thumb and equipment rating forms and manufacturers questionnaires have been collected to demonstrate the design process Many line drawings graphs and tables illustrate performance data Chapter 19 has been expanded to cover new information on membrane separation Approximately 100 worked examples are included End of chapter references also are provided

**Modelling of Chemical Process Systems** Syed Ahmad Imtiaz,2023-07-25 Models and simulations are widely being used for design optimization fault detection and diagnosis and various other decision making purposes Increasingly models are developed at different scales and levels all the way from molecular level to the large scale process systems scale Modelling of Chemical Process Systems gives readers a feel for the multiscale modelling As models have been developed for various applications a general systematic method for building model has

emerged This book starts with the history of modelling and its usefulness describing modelling steps in detail Examples have been chosen carefully from both conventional chemical process systems to contemporary systems including fuel cell and bioprocesses Modelling theories are complemented with case studies that explain step by step modelling methodologies This book also introduces the application of machine learning techniques to model chemical process systems This makes the book an indispensable reference for academics and professionals working in modelling and simulation Includes case studies that explain step by step modelling methodologies Covers detailed multiscale modelling of chemical processes providing examples from traditional and novel areas Provides modelling insight at micro and macro scale levels including machine learning techniques

*Process Technology Equipment and Systems* Charles E. Thomas (Ph. D.),2007 *Process Technology Equipment and Systems* has withstood the test of time successfully launching thousands of process technicians into the chemical processing industry The Second Edition carries on this tradition of excellence by providing state of the art graphics and photos alongside completely current information that keeps pace with industry developments Key topics include valves vessels and piping pumps and compressors motors and turbines heat exchangers cooling towers boilers and furnaces reactors and distillation extraction and separation systems and process instrumentation

CHEMICAL PROCESS TECHNOLOGY AND SIMULATION KOYIKKAL, SRIKUMAR,2013-04-08 This book is designed to apprise the students of chemical engineering with a variety of different processes of chemical technologies The book is richly illustrated and covers the essential information with the help of flow diagrams enabling the students to gain a full understanding of both the fundamental concepts and chemical reactions involved in process technologies Newer technologies have been dealt with and some technologies which have lost their relevance have been omitted Computer simulation methods have been described for many important technologies In short the book considers computer design tools and design software in a manner that integrates this knowledge smoothly into the main subject The book is expected to become useful not only to the students for courses in Chemical Technology but also to practising engineers and process designers for innovative process development There are topics on natural products and fermentation process chemicals organic chemicals inorganic chemicals refinery operations oil and gas operations and nanotechnology products In some of these topics computer simulation and costing examples are included An illustration of modelling and simulation using C is also given as an example of user written programs for simulation Another method that can be used for simulation is the use of spreadsheets which is also described with the help of an example A new important topic of today being polysilicon used in the manufacture of computer chips and solar panels is also covered in detail

**Chemical Process Technology** Larry Evans,2012-09 No further information has been provided for this title

*Advanced Control of Chemical Processes 1994* D. Bonvin,2014-05-23 This publication brings together the latest research findings in the key area of chemical process control including dynamic modelling and simulation modelling and model validation for application in linear and nonlinear model based control nonlinear model based predictive

control and optimization to facilitate constrained real time optimization of chemical processes statistical control techniques major developments in the statistical interpretation of measured data to guide future research knowledge based v model based control the integration of theoretical aspects of control and optimization theory with more recent developments in artificial intelligence and computer science

**Chemical Engineering and Chemical Process Technology - Volume I**  
Ryzhard Pohorecki, John Bridgwater, M. Molzahn. Rafiqul Gani and Crispulo Gallegos, 2010-11-30 Chemical Engineering and Chemical Process Technology is a theme component of Encyclopedia of Chemical Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty Encyclopedias Chemical engineering is a branch of engineering dealing with processes in which materials undergo changes in their physical or chemical state These changes may concern size energy content composition and or other application properties Chemical engineering deals with many processes belonging to chemical industry or related industries petrochemical metallurgical food pharmaceutical fine chemicals coatings and colors renewable raw materials biotechnological etc and finds application in manufacturing of such products as acids alkalis salts fuels fertilizers crop protection agents ceramics glass paper colors dyestuffs plastics cosmetics vitamins and many others It also plays significant role in environmental protection biotechnology nanotechnology energy production and sustainable economical development The Theme on Chemical Engineering and Chemical Process Technology deals in five volumes and covers several topics such as Fundamentals of Chemical Engineering Unit Operations Fluids Unit Operations Solids Chemical Reaction Engineering Process Development Modeling Optimization and Control Process Management The Future of Chemical Engineering Chemical Engineering Education Main Products which are then expanded into multiple subtopics each as a chapter These five volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

**Chemical Technology**  
F. A. Henglein, 2013-09-11 Chemical Technology is based on lectures the author gave at the Technische Hochschule of Karlsruhe and at the University of Freiburg Part 1 of this book deals with chemical technology and describes subjects dealing with apparatus unit operations and chemical economics The text reviews industrial chemical reactions raw materials preparation for reaction thermal and catalytic processes and a history of chemical technology This part also addresses transportation storage of raw materials and the design and construction of a chemical factory Part 2 concerns special chemical technology including topics such as raw material upgrading processing of products in the chemical industry and unit processes application toward consumer goods production This part reviews materials sourcing from animals minerals and vegetables such as processing of products from living organisms the recovery of sugar starch and other carbohydrates The book also reviews products of the chemical industry including low molecular weight consumer goods detergents aromas explosives plastics elastomers synthetic leather textile and some building materials Chemistry students chemical and process

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