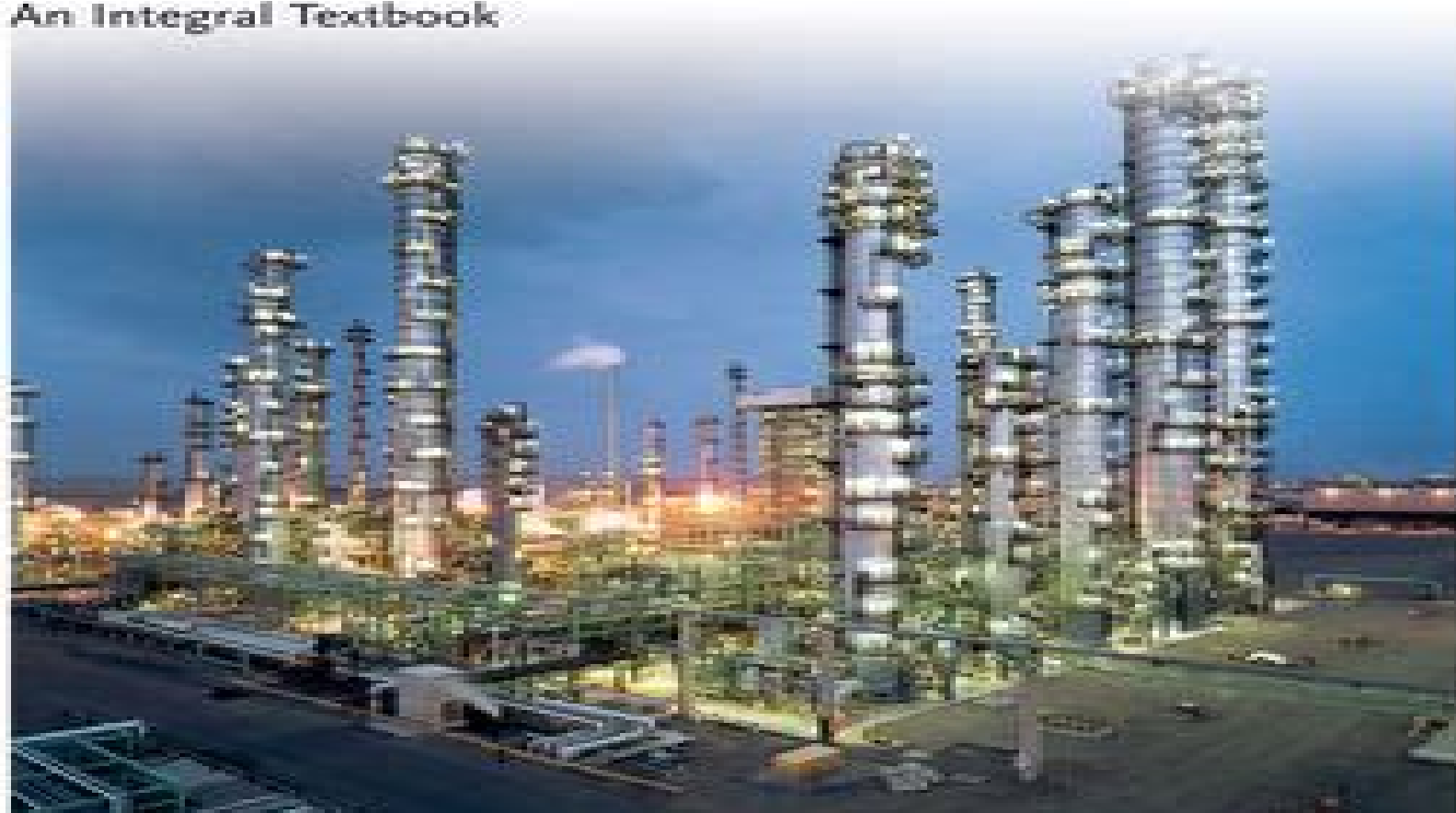


Andreas Jess, Peter Wasserscheid

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# Chemical Technology

An Integral Textbook



# Chemical Technology An Integral Textbook

**Andreas Jess, Peter Wasserscheid**



## **Chemical Technology An Integral Textbook:**

*Chemical Technology* Andreas Jess, Peter Wasserscheid, 2013-03-11 This textbook provides an integral and integrated treatment of industrial relevant problems for students of both chemistry and chemical engineering. As such, this work combines the four disciplines of chemical technology: chemistry, thermal and mechanical unit operations, chemical reaction engineering, and general chemical technology, and is organized into two main parts. The first covers the fundamentals as well as the analysis and design of industrial processes, while the second section presents 20 concrete processes exemplifying the inherent applied nature of chemical technology. These are selected so that they all differ with respect to at least one important aspect such as the type and design of the reactor, the chemistry involved, or the separation process used. As a result, readers will recapitulate, deepen, and exercise the chemical and engineering principles and their interplay, as well as being able to apply them to industrial practice. Instructive figures, rules of thumb for swift but reliable estimating of parameters, data of chemical media, and examples utilizing data from industrial processes facilitate and enhance the study process. A small general survey of selected modern trends such as multifunctional and micro reactors or new solvents for homogeneous catalysis such as ionic liquids point out to the reader that this is not a concluded discipline but a developing field with many challenges waiting to be solved. *Chemical Technology*, 1972

**Chemical Technology** Andreas Jess, Peter Wasserscheid, 2020-04-06 A fully updated edition of a popular textbook covering the four disciplines of chemical technology featuring new developments in the field. Clear and thorough throughout, this textbook covers the major sub-disciplines of modern chemical technology: chemistry, thermal and mechanical unit operations, chemical reaction engineering, and general chemical technology, alongside raw materials, energy sources, and detailed descriptions of 24 important industrial processes and products. It brings information on energy and raw material consumption and production data of chemicals up to date and offers not just improved and extended chapters but completely new ones as well. This new edition of *Chemical Technology: From Principles to Products* features a new chapter illustrating the global economic map and its development from the 15th century until today, and another on energy consumption in human history. Chemical key technologies for a future sustainable energy system such as power to X and hydrogen storage are now also examined. Chapters on inorganic products, material reserves, and water consumption and resources have been extended, while another presents environmental aspects of plastic pollution and handling of plastic waste. The book also adds four important processes to its pages: production of titanium dioxide, silicon production, and chemical recycling of polytetrafluoroethylene and fermentative synthesis of amino acids. Provides comprehensive coverage of chemical technology from the fundamentals to 24 of the most important processes. Intertwines the four disciplines of chemical technology: chemistry, thermal and mechanical unit operations, chemical reaction engineering, and general chemical technology. Fully updated with new content on power to X and hydrogen storage, inorganic products including metals, glass, and ceramics, water consumption and pollution, and additional industrial processes. Written by

authors with extensive experience in teaching the topic and helping students understand the complex concepts Chemical Technology From Principles to Products Second Edition is an ideal textbook for advanced students of chemical technology and will appeal to anyone in chemical engineering Catalysis Gadi Rothenberg,2017-09-01 This introductory textbook covers all aspects of catalysis It also bridges computational methods industrial applications and green chemistry with over 600 references The book is aimed at chemistry and chemical engineering students and is suitable for both senior undergraduate and graduate level courses with many examples and hands on exercises The author a renowned researcher in catalysis is well known for his clear teaching and writing style he was voted lecturer of the year by the chemistry students Following an introduction to green chemistry and the basics of catalysis the book covers the principles and applications of homogeneous catalysis heterogeneous catalysis and biocatalysis Each chapter includes up to date industrial examples that demonstrate how catalysis helps our society reach the goals of sustainable development Since its publication in 2008 Catalysis Concepts and Green Applications has become the most popular textbook in catalysis This second edition is updated with the latest developments in catalysis research in academia and industry It also contains 50 additional exercises based on the suggestions of students and teachers of chemistry and chemical engineering from all over the world The book is also available in the Chinese language <https://detail.tmall.com/item.htm?spm=a212k0.12153887.0.0.4e60687dUTEDKm&id=619581126247> Additional teaching material original figures as PowerPoint lecture slides is freely available in the Supplementary Material

**Mathematical Modeling of Complex Reaction Systems in the Oil and Gas Industry** Jorge Ancheyta,Andrey Zagoruiko,Andrey Elyshev,2024-09-30 Master the fundamentals of reaction systems modeling for the age of decarbonization Reactor design is one of the most important parts of the oil and gas industry with reactor processes and the accompanying technologies constantly evolving to meet industry needs A crucial component of effective reactor design is modelling complex reaction systems which can help predict commercial performance shape safety procedures and more At a time when decarbonization and clean energy transition are among the fundamental global technological challenges it has never been more important for engineers to grasp the cutting edge of reaction system modelling Mathematical Modeling of Complex Reaction Systems in the Oil and Gas Industry provides a systematic introduction to this timely subject Each chapter provides a step by step description of the kinetic and reactor models for a particular kind of process and its accompanying systems Backed by voluminous experimental data and incorporating extensive simulation results the book constitutes an indispensable contribution to the global search for clean energy solutions Mathematical Modeling of Complex Reaction Systems in the Oil and Gas Industry readers will also find All the required tools for developing new reactor models for different reaction scales Detailed discussion of topics including hydrocracking of heavy oils catalyst deactivation oxidative regeneration of catalysts and many more Extensive treatment of both steady state and dynamic simulations Mathematical Modeling of Complex Reaction Systems in the Oil and Gas Industry is ideal for chemical and process engineers computational

chemists and modelers catalysis researchers and any other researchers or professionals in petrochemical engineering and the oil and gas industry      *Reactive and Membrane-Assisted Separations* Philip Lutze, Andrzej Górak, 2016-07-28 Process intensification aims for increasing efficiency and sustainability of bio chemical production processes This book presents strategies for improving fluid separation such as reactive distillation reactive absorption and membrane assisted separations The authors discuss computer simulation model development methodological approaches for synthesis and the design and scale up of final industrial processes      Optimizing photocatalysts and photoreactors for solar fuel synthesis Kant, Paul Philipp, 2023-12-28 The work represents a toolbox for the design of a highly efficient photocatalytic process for solar driven synthesis The focus is the optimization of photoreactors and photocatalysts The described photoreactor design strategy is based on numerical methods mapping radiation transport and additive manufacturing delivering prototypes The photocatalyst engineering is based on suitable photocatalyst support strategies and a method for the determination of the quantum yield in photoreactions      **Hydrogen Production, Transportation, Storage, and Utilization** Sohrab Zendehboudi, Bahram Ghorbani, 2025-02-10 Hydrogen Production Transportation Storage and Utilization Theoretical and Practical Aspects is a comprehensive introduction to the theoretical and practical aspects of hydrogen as an energy vector This book presents upstream midstream and downstream aspects and at each stage explains the concepts methods applications and economics to provide a broad understanding of hydrogen energy This book explains each of the key aspects of hydrogen energy in dedicated chapters guiding readers through the fundamentals of hydrogen as an energy vector to economic safety and environmental considerations Chapter 1 explores energy storage technologies highlighting hydrogen's role as a clean versatile energy carrier alongside electrochemical batteries and thermal energy storage Chapter 2 analyzes the methods for hydrogen production and provides a review of the fundamental technological and environmental aspects of these methods Chapters 3 and 4 examine the physical chemical and material methods for hydrogen storage explaining the underlying theory concepts and mechanisms and critically analyzing the challenges and opportunities Chapter 5 explores the downstream aspects of hydrogen in transportation power generation energy supply in industry and as a feedstock in refineries and the chemical industry Chapter 6 builds on the previous chapters to provide a roadmap to the utilization of hydrogen energy such as site evaluation and monitoring and is supported by two case studies for hydrogen production and its storage by physical and chemical methods Finally Chapter 7 addresses the economic safety and environmental aspects of hydrogen supply chain alongside a well to wheel analysis This book offers readers an invaluable introduction to the theoretical and practical aspects of hydrogen energy for students researchers and professional engineers and will be of interest to anyone seeking a broad introduction to the topic of hydrogen energy Explains the theoretical and practical aspects of the hydrogen supply chain production transportation storage distribution and use in a simple and clear manner Provides a summary of and insights into hydrogen supply chain strategies in short term medium term and long term Examines the

environmental economic and safety aspects of hydrogen as well as providing industry standards and codes for different technologies

**Handbook Of Energy, Environment, And The Circular Economy - Volume 1: From Fossil Fuels To Sustainable Business Models** Gadi Rothenberg, Vitaly Gitis, 2024-07-26 The Handbook of Energy Environment and the Circular Economy covers a range of topics related to sustainable practices in energy production consumption and waste management It explores strategies for integrating renewable energy sources into the economy reducing greenhouse gas emissions and promoting sustainable development that is in harmony with the natural environment The first volume contains chapters spanning topics from the future of fossil fuels through wastewater management and electric vehicle EV battery recycling all the way to sustainable business models Coming from academia and industry the editors and chapter authors are known for their didactic skills as well as their technical expertise The text contains many high quality colourful illustrations and examples as well as thousands of up to date references to peer reviewed articles reports and websites for further reading This comprehensive and well written handbook is a must have reference for universities research groups and companies working in the fields of energy environment and the circular economy

**Textbook of Chemical Technology Volume-II, 2nd Edition** Pandey G.N., 2000-05 This book is a companion volume of A Textbook of Chemical Technology Volume I written by the same author The two books cover the complete syllabi of Chemical Engineering and Chemical Technology programmes leading to the B Tech degree The book explains the basic principles of chemical engineering and operating conditions of chemical plants in India It discusses all major organic chemical industries including petroleum technology petrochemicals polymer science pulp and paper technology It also deals with pesticides coal and coal chemicals and the pharmaceutical industry Keeping the importance of environmental protection and prevention and control of hazards in mind a few chapters on planned industrial development environmental impact assessment and prevention of hazards in chemical industries have also been included This book will also serve as a reference for practicing engineers and technologists

*Modern Chemical Technology and Emission Control* M.B. Hocking, 2012-12-06 This text of applied chemistry considers the interface between chemistry and chemical engineering using examples of some of the important process in dustries Integrated with this is detailed consideration of measures which may be taken for avoidance or control of potential emissions This new emphasis in applied chemistry has been developed through eight years of experience gained from working in industry in research development and environment al control fields plus twelve years of teaching here using this approach It is aimed primarily towards science and engineering students as well as to envi ronmentalists and practising professionals with responsibilities or an interest in this interface By providing the appropriate process information back to back with emis sions and control data the potential for process fine tuning is improved for both raw material efficiency and emission control objectives This approach also emphasizes integral process changes rather than add on units for emis sion control Add on units have their place when rapid action on an urgent emission problem is required or when control simply is not feasible by

process integral changes alone Obviously fundamental process changes for emission containment are best conceived at the design stage However at whatever stage process modifications are installed this approach to control should appeal to the industrialist in particular in that something more substantial than decreased emissions may be gained **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 polyethene 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

**Kirk-Othmer Encyclopedia of Chemical Technology, Volume 25** Kirk-Othmer, 2007-01-09 The fifth edition of the Kirk Othmer Encyclopedia of Chemical Technology builds upon the solid foundation of the previous editions which have proven to be a mainstay for chemists biochemists and engineers at academic industrial and government institutions since publication of the first edition in 1949 The new edition includes necessary adjustments and modernization of the content to reflect changes and developments in chemical technology **Chemical News and Journal of Physical Science** William Crookes, James H. Gardiner, Gerald Druce, H. W. Blood-Ryan, 1922 **Chemical Technology** Andreas Jess, Peter Wasserscheid, 2020-01-13 A fully updated edition of a popular textbook covering the four disciplines of chemical technology featuring new developments in the field Clear and thorough throughout this textbook covers the major sub disciplines of modern chemical technology chemistry thermal and mechanical unit operations chemical reaction engineering and general chemical technology alongside raw materials energy sources and detailed descriptions of 24 important industrial processes and products It brings information on energy and raw material consumption and production data of chemicals up to date and offers not just improved and extended chapters but completely new ones as well This new edition of **Chemical Technology From Principles to Products** features a new chapter illustrating the global economic map and its development from the 15th

century until today and another on energy consumption in human history Chemical key technologies for a future sustainable energy system such as power to X and hydrogen storage are now also examined Chapters on inorganic products material reserves and water consumption and resources have been extended while another presents environmental aspects of plastic pollution and handling of plastic waste The book also adds four important processes to its pages production of titanium dioxide silicon production and chemical recycling of polytetrafluoroethylene and fermentative synthesis of amino acids Provides comprehensive coverage of chemical technology from the fundamentals to 24 of the most important processes Intertwines the four disciplines of chemical technology chemistry thermal and mechanical unit operations chemical reaction engineering and general chemical technology Fully updated with new content on power to X and hydrogen storage inorganic products including metals glass and ceramics water consumption and pollution and additional industrial processes Written by authors with extensive experience in teaching the topic and helping students understand the complex concepts Chemical Technology From Principles to Products Second Edition is an ideal textbook for advanced students of chemical technology and will appeal to anyone in chemical engineering

**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 technology students and mechanical engineering students with interest in chemistry will find this book valuable

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