

M. B. Hocking

# Modern Chemical Technology and Emission Control



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# Modern Chemical Technology And Emission Control

**Ravi Tomar, K. K. Pant, Ramesh  
Chandra**



## **Modern Chemical Technology And Emission Control:**

**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 processes in industries. 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 environmental control fields plus twelve years of teaching here using this approach. It is aimed primarily towards science and engineering students as well as to environmentalists and practising professionals with responsibilities or an interest in this interface. By providing the appropriate process information back to back with emissions 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 emission 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.

**Pollution Control Technologies - Volume III** Bhaskar Nath, Georgi Stefanov Cholakov, 2009-09-30 Pollution Control Technologies is a component of Encyclopedia of Environmental and Ecological Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias. The Theme on Pollution Control Technologies focuses largely concerned with strategies for pollution reduction and pollution prevention if at all possible using scientific and technological methods. Focusing primarily but not exclusively on air pollution the Theme is written in simple English avoiding both mathematical and chemical equations as far as possible to facilitate effective and widest possible dissemination. The content of the Theme provides the essential aspects and a myriad of issues of great relevance to our world such as Control of Particulate Matter in Gaseous Emissions Control of Gaseous Emissions Pollution Control through Efficient Combustion Technology Pollution Control in Industrial Processes Pollution Control in Transportation which are then expanded into multiple subtopics each as a chapter. These three 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.

[Encyclopedic Dictionary of Named Processes in Chemical Technology](#) Alan E. Comyns, 2010-12-12 This reference provides concise descriptions of those chemical processes that are known by special names which are not obvious or self explanatory. Containing 2 600 entries this second edition includes information on the many new processes developed and commercialized as well as new information on old processes. Encyclopedic Dictionary of Named Processes in Chemical Technology presents a heterogeneous collection of names inventors

companies institutions places acronyms abbreviations and obvious corruptions of the chemical nomenclature The author has tailored the entries to reflect importance and topicality Generally the processes in current use have the longest entries however he also devotes more space to some obsolete processes that hold particular technical interest or historical significance The appendix is an index to product names enabling readers to identify processes used for making particular products

**Encyclopedic Dictionary of Named Processes in Chemical Technology, Fourth Edition** Alan E. Comyns, 2014-02-21 Since the third edition of this reference was completed there have been major changes in the global chemical industry With less emphasis on new processes for making basic chemicals and more emphasis on pollution prevention and waste disposal petrochemical processes are giving way to biochemical processes These changes are reflected in the new processes being developed many of which have their own names In addition niche improvements are still being made in petrochemistry and some of these processes have new names as well Gathering and defining a large portion of special named processes that may fall outside standard chemical texts or be scattered among industry manuals Encyclopedic Dictionary of Named Processes in Chemical Technology Fourth Edition provides a single source reference on an extensive array of named processes It provides concise descriptions of those processes in chemical technology that are known by special names that are not self explanatory While overviews of the chemical technology industry are present in other books most of the names defined within this volume are unique to this compilation This reference includes named processes in current commercial use around the world processes that have been or are being piloted on a substantial scale and even obsolete processes that have been important in the past The length of the dictionary entries reflects their importance and topicality The text includes references that document the origins of the processes and review the latest developments Written by a highly experienced and respected author this user friendly text is presented in a practical dictionary format that is useful for a broad audience including industrial chemists and engineers

**Measures of Environmental Performance and Ecosystem Condition** National Academy of Engineering, 1999-06-19 When Cleveland's Cuyahoga River caught fire in 1969 no environmental measurements were necessary to know the seriousness of the problem Incidents like the Cuyahoga fire raise an important question Can catastrophes in the making be detected early enough to be prevented For those in industry such disasters point to the need for measures that can improve the environmental performance of processes products business practices and linked industrial systems In Measures of Environmental Performance and Ecosystem Condition experts share their insights on environmental metrics The volume explores the most productive relationship between measures of environmental performance and measures of ecosystem conditions It reviews current approaches evaluates structures for business decisionmaking and includes a matrix for determining the environmental performance of industrial facilities Case studies include Development and application of a water quality rating scheme for streams and reservoirs in the Tennessee Valley Three years of successful experience with waste metrics at 3M The book covers the range

of environmental performance and condition metrics from the use of material flow data to monitor environmental performance at the national level to the use of bioassays to measure the toxicity of industrial effluents This book offers something for everyone policymakers executives engineers managers and advocates with a stake in the measurement of environmental performance and ecological conditions *Introduction to Industrial Chemistry* Howard L. White,1986-09-24 Written to help the student chemist clarify the career areas and technical problems which are to be considered when chemical reactions are carried out on a large scale Covers the research and development of consumer products based on chemical processes Topics covered include the chemical industry and large scale chemical manufacturing inorganic and fermentation processes the conversion of petroleum into purified chemical substances and the environmental impact of these and other processes **Air Pollution** Arthur C. Stern,2014-06-28 Subjects extensively covered include asbestos carbon dioxide lead nuclear accidents non ionizing radiation stratospheric ozone and visibility This state of the art compilation will facilitate the work of air pollution control agency personnel air pollution research scientists and air pollution consultants It will also be useful to law firms involved in air pollution litigation and to air pollution equipment and instrument manufacturers Acidic deposition acid rain Indoor air pollution Long range transport Risk assessment and management Hazardous and toxic substances *Dimensional Analysis and Scale-up in Chemical Engineering* Marko Zlokarnik,2012-12-06 Contemporary Chemical Process Engineers face complex design and research problems Temperature dependent physical properties and non Newtonian flow behavior of substances in a process cannot be predicted by numerical mathematics Scaling up equipment for processing can often only be done with partial similarity methods Standard textbooks often neglect topics like dimensional analysis theory of similarity and scale up This book fills this gap It is aimed both at university students and the process engineer It presents dimensional analysis very comprehensively with illustrative examples of mechanical thermal and chemical processes *Integrated Pollution Control* Ulrich Förstner,2012-12-06 Sustainable development and pollution control are the key factors in the development of strategies for the solution of environmental problems This book offers an integrated treatment of all aspects of environmental protection and remediation The presentation encompasses physical and chemical fundamentals technological approaches as well as ecological economic and ethical aspects The discussion of regulatory issues includes a comparison of environmental legislation in the US Japan and Europe The book addresses students as a comprehensive text and serves as a handy reference for environmental professionals in industry consulting services administration and environmental agencies and associations **How to Produce Methanol from Coal** Emil Supp,2013-04-17 Owing to efforts and legislative action initiated above all by the government of the United States to use cleaner fuels and thus make a contribution towards a better environment public attention is back again on using methanol in carbu rettör and diesel engines Most prominent among the raw materials from which methanol can be produced is coal whose deposits and resources are many times larger than those of liquid and

gaseous hydrocarbons This book deals with the production of methanol from coal It describes both the individual steps that are required for this process and the essential ancillary units and offsites associated with the process itself It is not meant to inform the reader about the intricate details of the processes which can much better be taken from the specialized literature that deals exclusively and in detail with them or from the well known standard engineering books Rather this book is to give the reader an impression how manifold a field this is how many process variations and combinations the designer of such plants has to consider in order to arrive at an optimum design in each particular case Apart from the production of chemical grade methanol the book deals briefly also with fuel methanol production i e with the production of alcohol mixes One of the many possible routes from coal to methanol is illustrated by a process flow diagram and a material and energy balance is compiled for this typical example Greening the Industrial Facility Thomas Graedel, Jennifer Howard-Grenville, 2006-04-09 This textbook and reference fills a critical gap in literature on the comprehensive environmental impacts of industrial organizations Nineteen chapters examine individual industrial sectors inherent potential to pollute The text goes on to analyze new technologies and practices for transforming environmentally degrading effects of industry and shows how managers can navigate these changes and move their organizations towards long term environmental sustainability

**Industrial Aromatic Chemistry** Heinz-Gerhard Franck, Jürgen W. Stadelhofer, 2012-12-06 Aromatic organic hydrocarbons and heterocycles represent a bulk of about one third of all industrially produced organic basic materials Aromatic compounds such as benzene phenol naphthalene anthracene and their homologues are derived from raw materials coal crude oil and biogenic resources by thermal and catalytic refining processes This book introduces the chemistry of aromatics with a brief discussion of the aromatic character and a survey of historical aspects particularly the development of the organic dye industry during the 19th century The main emphasis of the book is to give a clear prospect of industrial processes for the production and the derivatisation of aromatics with consistent flow diagrams Economical aspects of by and side products are especially regarded For the most important aromatics an analysis of the international market included their derivatives polymers pesticides dyes pigments and drugs Professional scientists managers and students in chemistry and chemical engineering will find a wealth of information for their career and daily work Preliminary Chemical Engineering Plant Design W.D. Baasal, 1989-11-30 This reference covers both conventional and advanced methods for automatically controlling dynamic industrial processes *Inorganic Chemistry* Thomas W. Swaddle, 1997-03-26 This book addresses the question What is inorganic chemistry good for rather than the more traditional question How can we develop a theoretical basis for inorganic chemistry from sophisticated theories of bonding The book prepares students of science or engineering for entry into the multi billion dollar inorganic chemical and related industries and for rational approaches to environmental problems such as pollution abatement corrosion control and water treatment A much expanded and updated revision of the 1990 text Applied Inorganic Chemistry University of Calgary Press Inorganic Chemistry covers topics including atmospheric

pollution and its abatement water conditioning fertilizers cement chemistry extractive metallurgy metallic corrosion catalysts fuel cells and advanced battery technology pulp and paper production explosives supercritical fluids sol gel science materials for electronics and superconductors Though the book was written as a textbook for undergraduates with a background of freshman chemistry it will also be a valuable sourcebook for practicing chemists engineers environmental scientists geologists and educators

Balancing the Needs of Water Use James W. Moore, 2013-12-14 This series is dedicated to serving the growing community of scholars and practitioners concerned with the principles and applications of environmental management Each volume is a thorough treatment of a specific topic of importance for proper management practices A fundamental objective of these books is to help the reader discern and implement man's stewardship of our environment and the world's renewable resources For we must strive to understand the relationship between man and nature act to bring harmony to it and nurture an environment that is both stable and productive These objectives have often eluded us because the pursuit of other individual and societal goals has diverted us from a course of living in balance with the environment At times therefore the environmental manager may have to exert restrictive control which is usually best applied to man not nature Attempts to alter or harness nature have often failed or backfired as exemplified by the results of imprudent use of herbicides fertilizers water and other agents Each book in this series will shed light on the fundamental and applied aspects of environmental management It is hoped that each will help solve a practical and serious environmental problem

Solid Base Catalysts Ravi Tomar, K. K. Pant, Ramesh Chandra, 2024-10-15 Foundational knowledge and practical approaches of an interesting catalyst class for greener and cleaner chemical synthesis Solid Base Catalysts provides insights and information on cutting edge heterogeneous catalysis technologies and approaches of non corrosive and easy to use solid catalysts that can replace conventional liquid catalysts that are known to pose operational problems Edited by three highly qualified authors with contributions from experts in industry and academia Solid Base Catalysts includes Latest and most advanced studies in the characterization of solid catalysts with applications in various organic transformations Versatile reaction types where solid catalysts can be used as well as the multidisciplinary nature of solid base catalyst research and its connections to other fields Multicomponent reactions for eco compatible heterocyclic synthesis over solid catalysts and synthesis routes experimental protocols and other considerations for optimizing catalyst properties Advanced methodologies and applications for analyzing solid catalysts and challenges and future prospects in the field Solid Base Catalysts is a complete reference on the subject for researchers and professionals in materials science green chemistry surface chemistry and chemical engineering

**Applied Mechanics Reviews**, 1986      **Dense Gases for Extraction and Refining** Egon Stahl, Karl-Werner Quirin, Dieter Gerard, 2012-12-06 Procedures for extracting or refining sensitive substances using dense gases have been developed for numerous purposes Dense carbon dioxide is already being used industrially for decaffeination of coffee and extraction of hops Further possible applications have been tested on the laboratory or pilot plant scales and

shown to be mostly economical Uses as varied as the non aggressive extraction of spice extraction of polymers refining of spent oil pyrolysis extraction of wood and liquefaction of coal show the extremely wide range of application The book comprehensively reviews the present state of development and features examples of application of this new technique

Kirk-Othmer Chemical Technology and the Environment, 2 Volume Set Wiley,2007-05-21 The two volume reference work Chemical Technology and the Environment provides readers with knowledge on contemporary issues in environmental pollution prevention and control as well as regulatory health and safety issues as related to chemical technology It introduces and expands the knowledge on emerging green materials and processes and greener energy technology as well as more general concepts and methodology including sustainable development and chemistry and green chemistry Based on Wiley s renowned Kirk Othmer Encyclopedia of Chemical Technology this compact reference features the same breadth and quality of coverage and clarity of presentation found in the original     **The Top Fifty Industrial Chemicals** Raymond Chang,Wayne Tikkanen,1988



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