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Environmental Chemistry

John Wiley & Sons

A detailed reference for the practicing engineer, *Air Pollution Control Technology Handbook, Second Edition* focuses on air pollution control systems and outlines the basic process engineering and cost estimation required for its design. Written by seasoned experts in the field, this book offers a fundamental understanding of the factors resulting in air pollution and covers the techniques and equations used for air pollution control. Anyone with an engineering or science background can effectively select techniques for control, review alternative design methods

and equipment proposals from vendors, and initiate cost studies of control equipment using this book. This second edition of a bestseller includes new methods for designing control equipment, enhanced material on air pollution science, updates on major advances in the field, and explains the importance of a strategy for identifying the most cost-effective design. The book also covers: New legislation and updates on air regulation New advances in process integration design techniques The atmospheric and health effects of air pollution *Air Pollution Control Technology Handbook, Second Edition* helps combat the solution problem with extensive coverage of air pollution control processes. Fully updated with new legislation, air regulations, and extensive reviews of the design of control equipment, this book serves as an ideal reference

for industry professionals or anyone with an engineering or science background needing a basic introduction to air pollution control equipment design.

Air Pollution Control Technology Handbook
Waveland Press

This design-oriented book discusses the causes, sources, effects & regulation of air pollution, plus the philosophy of design & economic analysis necessary for the effective control of air pollution.

Monitoring, Control and Effects of Air Pollution
Elsevier

This textbook discusses engineering principles relating to air pollution and greenhouse gases (GHGs); it focuses on engineering principles and designs of related devices and equipment for air emission control for a variety of industries such as energy, chemical, and

transportation industries. The book aims primarily at senior undergraduate and graduate students in mechanical, chemical and/or environmental engineering departments; it can also be used as a reference book by technical staff and design engineers who are interested in and need to have technical knowledge in air pollution and GHGs. The book is motivated by recent rapid advances in air pollution and greenhouse gas emissions and their control technologies. In addition to classic topics related to air pollution, this book is also featured with emerging topics related to air pollution and GHGs. It covers recent advances in engineering approaches to the reduction of GHG emissions including, but are not limited to, green energy technologies and carbon sequestration and storage. It also introduces an emerging topic in air pollution, which is referred to as Nano Air Pollution. It is a growing concern in air pollution, but largely missing in similar books, likely because of recent rapid advances in nanotechnology has outpaced the advances in nano air pollution control. Air Quality, Fifth Edition CRC Press

Air pollution is thus far one of the key environmental issues in urban areas. Comprehensive air quality plans are required to manage air pollution for a particular area.

Consequently, air should be continuously sampled, monitored, and modeled to examine different action plans. Reviews and research papers describe air pollution in five main contexts: Monitoring, Modeling, Risk Assessment, Health, and Indoor Air Pollution. The book is recommended to experts interested in health and air pollution issues. Guidelines for Pollution Control Equipment Components CRC Press

The fifth edition of a bestseller, Air Quality provides students with a comprehensive overview of air quality, the science that continues to provide a better understanding of atmospheric chemistry and its effects on public health and the environment, and the regulatory and technological management practices employed in achieving air quality goals. Maintaining the practical approach that has made previous editions so popular, the chapters have been reorganized, new material has been added, less relevant material deleted, and new images added, particularly those from Earth satellites. See What ' s New in the Fifth Edition: New graphics, images, and an appended list of unit conversions New problems and questions Revisions and updates on the regulatory aspects related to air quality, emissions of pollutants, and particularly in the area of greenhouse gas emissions Updated information on topics that affect air quality

such as global warming, climate change, international issues associated with air quality and its regulation, atmospheric deposition, atmospheric chemistry, and health and environmental effects of atmospheric pollution Written in Thad Godish ' s accessible style, the book clearly elucidates the challenges we face in our fifth decade of significant regulatory efforts to protect and enhance the quality of the nation ' s air. It also highlights the growing global awareness of air quality issues, climate change, and public health concerns in the developing world. The breadth of coverage, review questions at the end of each chapter, extensive glossary, and list of readings put the tools for understanding in your students ' hands.

Air Pollution Control Routledge Environmental Chemistry, Eighth Edition builds on the same organizational structure validated in previous editions to systematically develop the principles, tools, and techniques of environmental chemistry to provide students and professionals with a clear understanding of the science and its applications. Revised and updated since the publication of the best-selling Seventh Edition, this text continues to emphasize the major concepts essential to the practice of environmental science, technology, and chemistry while introducing the newest innovations to the field. The author provides clear explanations to important concepts such as the anthrosphere, industrial

ecosystems, geochemistry, aquatic chemistry, and atmospheric chemistry, including the study of ozone-depleting chlorofluorocarbons. The subject of industrial chemistry and energy resources is supported by pertinent topics in recycling and hazardous waste. Several chapters review environmental biochemistry and toxicology, and the final chapters describe analytical methods for measuring chemical and biological waste. New features in this edition include: enhanced coverage of chemical fate and transport; industrial ecology, particularly how it is integrated with green chemistry; conservation principles and recent accomplishments in sustainable chemical science and technology; a new chapter addressing terrorism and threats to the environment; and the use of real world examples. The Science of Environmental Pollution CRC Press

Full text engineering e-book. Introduction to Environmental Engineering CRC Press

Air Quality Assessment and Management: A Practical Guide describes the techniques available for an assessment while detailing the concepts and methodologies involved. It reviews the principles of air quality management; primary sources of air pollution; impact of emissions on human health, flora and fauna; scoping of air quality impacts; baseline monitoring; impact prediction; impact significance; and pollution mitigation and control. Emphasis will be placed on the practical side of AQA, with numerous international case studies and exercises to aid the reader in their understanding of concepts and applications.

CRC Press

The book addresses the subjects related to the selected aspects of pollutants emission, monitoring and their effects. The most of recent publications concentrated on the review of the pollutants emissions from industry, especially power sector. In this one emissions from opencast mining and transport are addressed as well. Beside of SO_x and NO_x emissions, small particles and other pollutants (e.g. VOC, ammonia) have adverse effect on environment and human being. The natural emissions (e.g. from volcanoes) has contribution to the pollutants concentration and atmospheric chemistry governs speciation of pollutants, as in the case of secondary acidification. The methods of ambient air pollution monitoring based on modern instrumentation allow the verification of dispersion models and balancing of mass emissions. The comfort of everyday human's activity is influenced by indoor and public transport vehicles interior air contamination, which is effected even by the professional appliances operation. The outdoor pollution leads to cultural heritage objects deterioration,

the mechanism are studied and the methods of rehabilitation developed. However to prevent emissions the new technologies are being developed, the new class of these technologies are plasma processes, which are briefly reviewed at the final part of the book.

Industrial Waste Treatment Handbook Elsevier

Ozone-destroying chemicals, greenhouse gases, and dangerous airborne substances that were once thought to be benign are the most urgent issues facing air pollution control experts. Students need a thorough, updated reference that explores these current trends while also covering the fundamental concepts of this emerging discipline. A new revision of a bestseller, Air Quality, Fourth Edition provides a comprehensive overview air quality issues, including a better understanding of atmospheric chemistry, the effects of pollution on public health and the environment, and the technology and regulatory practices used to achieve air quality goals. New sections cover toxicological principles and risk assessment. The book also contains revised discussions on public policy concerns, with a focus on air

quality standards for ozone depletion and global warming, and the health effects of particulate air pollutants. This edition continues to serve as a very readable text for advanced level undergraduate and early graduate study in environmental science, environmental management, and in programs related to the study of public health, industrial hygiene, and pollution control.

Air Quality Assessment and Management BoD – Books on Demand

This is a major new handbook that covers hundreds of subjects that cross numerous industry sectors; however, the handbook is heavily slanted to oil and gas environmental management, control and pollution prevention and energy efficient practices. Multi-media pollution technologies are covered : air, water, solid waste, energy. Students, technicians, practicing engineers, environmental engineers, environmental managers, chemical engineers, petroleum engineers, and environmental attorneys are all professionals who will benefit from this major new reference source. The handbook is organized in three parts. Part A provides an extensive compilation of

abbreviations and concise glossary of pollution control and engineering terminology.

More than 400 terms are defined. The section is intended to provide a simple look-up guide to confusing terminology used in the regulatory field, as well as industry jargon. Cross referencing between related definitions and acronyms are provided to assist the user.

Part B provides physical properties and chemical safety information. This part is not intended to be exhaustive; however it does provide supplemental information that is useful to a number of the subject entries covered in the main body of the handbook.

Part C is the Macropedia of Subjects. The part is organized as alphabetical subject entries for a wide range of pollution controls, technologies, pollution prevention practices and tools, computational methods for preparing emission estimates and emission inventories and much more. More than 100 articles have been prepared by the author, providing a concise overview of each subject, supplemented by sample calculation methods and examples where appropriate, and references. Subjects included are organized and presented in a

macropedia format to assist a user in gaining an overview of the subject, guidance on performing certain calculations or estimates as in cases pertinent to preliminary sizing and selection of pollution controls or in preparing emissions inventories for reporting purposes, and recommended references materials and web sites for more in-depth information, data or computational tools. Each subject entry provides a working overview of the technology, practice, piece of equipment, regulation, or other relevant issue as it pertains to pollution control and management. Cross referencing between related subjects is included to assist the reader to gain as much of a practical level of knowledge.

AIR POLLUTION CONTROL.
Waveland Press

A 25-year tradition of excellence is extended in the Fourth Edition of this highly regarded text. In clear, authoritative language, the authors discuss the philosophy and procedures for the design of air pollution control systems. Their objective is twofold: to present detailed information on air pollution and its control, and to provide formal design training for engineering students. New to this edition is a comprehensive chapter on carbon dioxide

control, perhaps the most critical emerging issue in the field. Emphasis is on methods to reduce carbon dioxide emissions and the technologies for carbon capture and sequestration. An expanded discussion of control technologies for coal-fired power plants includes details on the capture of NO_x and mercury emissions. All chapters have been revised to reflect the most recent information on U.S. air quality trends and standards. Moreover, where available, equations for equipment cost estimation have been updated to the present time. Abundant illustrations clarify the concepts presented, while numerous examples and end-of-chapter problems reinforce the design principles and provide opportunities for students to enhance their problem-solving skills.

Advanced Air and Noise Pollution Control Waveland Press

Loss prevention engineering describes all activities intended to help organizations in any industry to prevent loss, whether it be through injury, fire, explosion, toxic release, natural disaster, terrorism or other security threats. Compared to process safety, which only focusses on preventing loss in the process industry, this is a much broader field. Here is the only one-stop source for loss prevention principles, policies, practices, programs and methodology presented from an

engineering vantage point. As such, this handbook discusses the engineering needs for manufacturing, construction, mining, defense, health care, transportation and quantification, covering the topics to a depth that allows for their functional use while providing additional references should more information be required. The reference nature of the book allows any engineers or other professionals in charge of safety concerns to find the information needed to complete their analysis, project, process, or design.

Handbook of Industrial Drying Academic Press

This Revised Edition Of The Book On Environmental Pollution Control Engineering Features A Systematic And Thorough Treatment Of The Principles Of The Origin Of Air, Water And Land Pollutants, Their Effect On The Environment And The Methods Available To Control Them. The Demographic And Environmental Trends, Energy Consumption Patterns And Their Impact On The Environment Are Clearly Discussed. Application Of The Physical, And Chemical Engineering Concepts To The Design Of Pollution Control Equipment Is Emphasized. Due Importance Is Given To Modelling, Quality Monitoring And Control Of Specific Major Pollutants. A Separate Chapter On The Management Of

Hazardous Wastes Is Added. Information Pertaining To Indian Conditions Is Given Wherever Possible To Help The Reader Gain An Insight Into India Sown Pollution Problems. This Book Is Mainly Intended As A Textbook For An Integrated One-Semester Course For Senior Level Undergraduate Or First Year Post-Graduate Engineering Students And Can Also Serve As A Reference Book To Practising Engineers And Decision Makers Concerned With Environmental Pollution Control.

Air Quality CRC Press

Air pollution control can be approached from a number of different engineering disciplines environmental, chemical, civil, and mechanical. To that end, Noel de Nevers has written an engaging overview of the subject. While based on the fundamentals of chemical engineering, the treatment is accessible to readers with only one year of college chemistry. In addition to discussions of individual air pollutants and the theory and practice of air pollution control devices, de Nevers devotes about half the book to topics that influence device selection and design, such as atmospheric models and U.S. air pollution law. The generous number of end-of-chapter problems are designed to develop more complex thinking about the concepts presented and integrate them with readers personal

experience increasing the likelihood of deeper understanding.

Air Quality, Fourth Edition
Springer Science & Business Media

The Science of Environmental Pollution focuses on pollution of the atmosphere, of surface and groundwater, and of soil (the three environmental mediums) and solving pollution problems by using real world methods. This introductory textbook in environmental science focuses on pollution of the atmosphere, of surface and groundwater, and of soil, all critical to our very survival.

Air Pollution Control

Engineering CRC Press

The field of environmental chemistry has evolved significantly since the publication of the first edition of Environmental Chemistry. Throughout the book's long life, it has chronicled emerging issues such as organochloride pesticides, detergent phosphates, stratospheric ozone depletion, the banning of chlorofluorocarbons, and greenhouse warming. D Air Pollution Control Engineering Springer Pollution control at Army installations has become a key element in the management process as changing policies stringently dictate the treatment and storage or disposal of wastes harmful to public health and the environment. It is the responsibility of installation personnel to ensure that

manufacturing wastes emitted to the environment are minimized. One of the means of controlling manufacturing wastes is to use pollution control equipment (PCE) that is an integral part of the manufacturing process. A team of researchers at the U.S. Army Construction Engineering Research Laboratories (USACERL) researched commercially available PCE and identified critical PCE components. Research results were incorporated into a guideline report for installation personnel responsible for designing and purchasing PCE, so that they can procure the most efficient and cost-effective equipment.

Air Pollution and Greenhouse Gases CRC Press

This reference overflows with an abundance of experimental techniques, simulation strategies, and practical applications useful in the control of pollutants generated by combustion processes in the metals, minerals, chemical, petrochemical, waste, incineration, paper, glass, and foods industries. The book assists engineers as they attempt to meet e

Social Issues in America

Elsevier

Industrial Waste Treatment Handbook provides the most reliable methodology for identifying which waste types

are produced from particular industrial processes and how they can be treated. There is a thorough explanation of the fundamental mechanisms by which pollutants become dissolved or become suspended in water or air. Building on this knowledge, the reader will learn how different treatment processes work, how they can be optimized, and the most efficient method for selecting candidate treatment processes. Utilizing the most up-to-date examples from recent work at one of the leading environmental and science consulting firms, this book also illustrates approaches to solve various environmental quality problems and the step-by-step design of facilities. Practical applications to assist with the selection of appropriate treatment technology for target pollutants Includes case studies based on current work by experts in waste treatment, disposal, management, environmental law and data management Provides glossary and table of acronyms for easy reference