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Theodore · Buonicore (Eds.)

# **Air Pollution Control Equipment**



**Selection, Design, Operation  
and Maintenance**



**Springer**

# Air Pollution Control Equipment Selection Design Operation And Maintenance Environmental Engineering

**Adisa Azapagic, Slobodan  
Perdan, Roland Clift**



## **Air Pollution Control Equipment Selection Design Operation And Maintenance Environmental Engineering:**

**Air Pollution Control Equipment** Louis Theodore, Anthony J. Buonicore, 1994-11-04 With the advent of the Clean Air Act in 1970 the number of air pollution control equipment installations has increased at an accelerated pace Although much has been written on attaining collection performance with the various control devices a major void has occurred in the identification and transfer of information needed to help reduce maintenance costs and to prevent deterioration of collector performance Although design and selection information is presented it is the primary intention of this book to discuss operation and maintenance topics and explore many of the repetitive problems that have plagued users of air pollution control equipment The existence of these problems may be related to the complexity of the process or to a lack of well defined operation techniques among other reasons In any event this book intends to emphasize where and how these factors can have a major impact on the maintenance problems of control devices Operation and maintenance problems have plagued users for nearly 100 years

**Air Pollution Control Equipment** Louis Theodore, Anthony J. Buonicore, 1982 Optimizing Air Pollution Control Equipment Performance Jay Richardson, Louis Theodore, 2024-11-21 Comprehensive overview of the air pollution control technology field including the design selection operation and maintenance of relevant devices Optimizing Air Pollution Control Equipment Performance delivers an analysis of the subject of air pollution control equipment from the perspective of the practicing engineer or an applied scientist rather than a theoretical perspective Written by a team of highly qualified authors with experience in both industry and academia coverage includes Design and selection of a variety of relevant devices as well as carbon dioxide capture processes and technologies related to control of NO<sub>x</sub> Strategies to ensure that air pollution control systems meet stringent emission standards and latest technological requirements with up to date references throughout Typical problems related to air pollution control equipment emphasizing where and how these factors can have a major impact on the maintenance problems of control devices Methods to reduce maintenance costs and prevent deterioration of collector performance A timely reference detailing problems that have plagued users for nearly 100 years Optimizing Air Pollution Control Equipment Performance earns a well deserved spot on the bookshelves of professionals working in environmental control including consultants engineers and government agency personnel as well as advanced students in related programs of study

**Environmental Infrastructure Management** J.J. Boland, M.E. Bell, Eugene Z. Stakhiv, 2013-06-29 Environmental issues continue to burden governments and economies throughout the post communist countries of Central and Eastern Europe and the newly independent states of the former Soviet Union Severe environmental degradation is endemic to the region the existing environmental infrastructure is often inadequate significant new investment is perhaps decades away and there is little knowledge of advanced techniques for impact assessment project evaluation and project financing The first two papers of Environmental Infrastructure Management survey available cost effective technology for solid waste treatment and air pollution control providing guidance for possible incremental additions

to existing infrastructure There is also a discussion of transferable pollution credits as an instrument in regulating air quality The discussion of economic incentives also embraces user fees and other pollution control instruments A range of methods is presented for the evaluation and comparison of alternative projects where data are poor or scarce Canadian experience with specific capital budgeting techniques is given comprehensive attention Debt financing strategies are addressed in the context of present day Ukraine Finally an outline is given of a general framework for making decisions about environmental projects including the use of environmental impact assessments

**Air Pollution Control and Design** Pen-Chi Chiang,Xiang Gao,2022-10-03 This book focuses specifically on the environmental issues related to the air pollution control and design It is divided into four parts 1 Fundamentals of air pollution control 2 fundamentals of energy utilization 3 gaseous control and design and 4 particulate control and design each consisting of four to six chapters The topics covered in this book not only introduce the basic concepts of air pollution control and design but also address the fundamentals of energy utilization in the context of good engineering practice and policy instruments It also features several innovative technologies and integrated methodologies relating to gaseous and particulate matter control and design To facilitate technology integration and meet the need for comprehensive information on sustainable development the book discusses a wide range of areas concerning the principles applications and assessment of air pollution control and design and thermodynamics heat transfer advanced combustion and renewable energy for energy utilization It also features regulations and policy instruments adopted around the globe as well as several case studies Presenting the emerging challenges new concepts innovative methodologies and resolving strategies as well as illustrative and inspiring case studies it appeals to a wide range of readers such as researchers graduate students engineers policy makers and entrepreneurs

**Fundamentals of Air Pollution** Daniel A. Vallero,2025-05-15 Fundamentals of Air Pollution Sixth Edition offers an extensive study of the science of air pollution With a highly interdisciplinary approach the book s author examines air pollution through the lenses of chemistry physics meteorology engineering toxicology regulation and more Students faculty and researchers alike will find a world of information in this comprehensive text that is strategically organized into six parts Foundations of Air Pollution The Risks of Air Pollution Tropospheric Pollution Biogeochemistry of Air Pollutants Addressing Air Pollution and The Future for Air Pollution Science and Engineering Readers will find helpful features throughout including case studies topical sidebars worked examples calculations and reference data This valuable resource offers an up to date and comprehensive analysis of air pollution with its wealth of benefits to both students and researchers Provides a systems approach to air pollution that helps readers understand the physical chemical biological and engineering underpinning of any air quality topic Includes new sidebars and examples of emerging problems to help readers apply skills needed to address air pollution Presents critical equations symbology and a glossary useful for anyone who reads the Federal Register state province and national standards and guidelines and journal articles

**Point Sources of Pollution: Local Effects and their Control - Volume II** Qian

Yi,2009-08-17 Point Sources of Pollution Local Effects and their Control 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 Point sources of pollution are the major causes of degradation of ecosystems and may have significant effects on human health if they are not properly controlled They can be classified in terms of sources the discharged media and the pollutants themselves Broadly speaking the sources include municipal and industrial sector activities and the media include water air and solids Noise is also an important form of pollution Pollutant compositions from point sources can be vast varied and complex and can vary between different countries and regions The Theme discusses matters of great relevance to our world such as Vehicular Emissions Industrial Pollution Domestic Pollution Environmental Pollutants and Their Control Technologies for Air Pollution Control and Technologies for Water Pollution Control These two 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

**Fundamentals of Air Pollution 2e** Arthur C. Stern,1984-05-28 Fundamentals of Air Pollution Second Edition discusses the basic chemistry physics and engineering of air pollution This edition explores the processes and equipment that produce less pollution in the atmosphere This book is comprised of six parts encompassing 28 chapters This text starts with an overview of the predominant air pollution problems during the Industrial Revolution including smoke and ash produced by burning oil or coal in the boiler furnaces of power plants marine vessels and locomotives This edition then explores the mathematical models of atmospheric transport and diffusion and discusses the air pollution control in communities Other chapters deal with atmospheric chemistry control technology and visibility through the atmosphere This book further examines the regulatory concepts that have become more significant such as the bubble concept air quality emission standards and the trading and banking of emission rights Air pollution scientists atmospheric scientists ecologists engineers educators researchers and students will find this book extremely useful

**Unit Operations in Environmental Engineering** Louis Theodore,R. Ryan Dupont,Kumar Ganesan,2017-09-18 The book presents the principles of unit operations as well as the application of these principles to real world problems The authors have written a practical introductory text exploring the theory and applications of unit operations for environmental engineers that is a comprehensive update to Linvil Rich s 1961 classic work Unit Operations in Sanitary Engineering The book is designed to serve as a training tool for those individuals pursuing degrees that include courses on unit operations Although the literature is inundated with publications in this area emphasizing theory and theoretical derivations the goal of this book is to present the subject from a strictly pragmatic introductory point of view particularly for those individuals involved with environmental engineering This book is concerned with unit operations fluid flow heat transfer and mass transfer Unit operations by definition are physical processes although there are some that include chemical and biological reactions The unit operations

approach allows both the practicing engineer and student to compartmentalize the various operations that constitute a process and emphasizes introductory engineering principles so that the reader can then satisfactorily predict the performance of the various unit operations equipment This is a definitive work on Unit Operations one of the most important subjects in environmental engineering today It is an excellent reference well written easily read and comprehensive I believe the book will serve well those working in engineering disciplines including those beyond just environmental and chemical engineering Bottom line A must for any technical library Kenneth J Skipka CCM

**Air Pollution Control Equipment Calculations** Louis Theodore, 2008-11-26 Unique problem and solution approach for quickly mastering a broad range of calculations This book's problem and solution approach enables readers to quickly grasp the fundamentals of air pollution control equipment and essential applications Moreover the author sets forth solid principles for the design and selection of air pollution control equipment as well as for its efficient operation and maintenance Readers gain a deep understanding of both the equipment itself and the many factors affecting performance Following two introductory chapters the book dedicates four chapters to examining control equipment for gaseous pollutants including adsorption absorption and incineration equipment The remaining six chapters deal with equipment for managing airborne particulate pollutants including gravity settlers cyclones electrostatic precipitators scrubbers and baghouses The appendix contains discussions of hybrid systems the SI system including conversion constants and a cost equipment model Each chapter offers a short introduction to the control device discussed Next progressively more difficult problems with accompanying solutions enable readers to build their knowledge as they advance through the chapter Problems reflect the most recent developments in pollution control and include a variety of performance equations and operation and maintenance calculations Each problem includes a statement of the problem the data used to solve the problem and a detailed solution Readers may further hone their skills by visiting the text's Web site for additional problems and solutions This publication serves both as a textbook for engineering students and as a reference for engineers and technicians who need to ensure that air pollution control equipment operates efficiently and enables their facility to meet all air pollution control standards and regulations

**Handbook of Air Pollution Control Engineering and Technology** John C. Mycock, John McKenna, Louis Theodore, 1995 This handbook provides information for professionals attempting to reduce and eliminate air pollution problems It contains information on all aspects of air pollution and also examines the technical aspects of air pollution control equipment Many practical applications are provided and the text is referenced to assist the reader in further research The major scientific areas of air pollution are brought together with practical engineering solutions and will help air quality and pollution control managers to reduce maintenance costs and prevent deterioration of installations

Sustainable Development in Practice Adisa Azapagic, Slobodan Perdan, Roland Clift, 2004-07-23 This groundbreaking text provides background theory on the concept of sustainable development environmental social and economic aspects and presents a

series of practical case studies on such topics as waste water management air quality solid waste management and renewable energy

**Air Pollution Control Equipment** Louis Theodore, Anthony J. Buonicore, 1988-01-31 Unique problem and solution approach for quickly mastering a broad range of calculations This book's problem and solution approach enables readers to quickly grasp the fundamentals of air pollution control equipment and essential applications Moreover the author sets forth solid principles for the design and selection of air pollution control equipment as well as for its efficient operation and maintenance Readers gain a deep understanding of both the equipment itself and the many factors affecting performance Following two introductory chapters the book dedicates four chapters to examining control equipment for gaseous pollutants including adsorption absorption and incineration equipment The remaining six chapters deal with equipment for managing airborne particulate pollutants including gravity settlers cyclones electrostatic precipitators scrubbers and baghouses The appendix contains discussions of hybrid systems the SI system including conversion constants and a cost equipment model Each chapter offers a short introduction to the control device discussed Next progressively more difficult problems with accompanying solutions enable readers to build their knowledge as they advance through the chapter Problems reflect the most recent developments in pollution control and include a variety of performance equations and operation and maintenance calculations Each problem includes a statement of the problem the data used to solve the problem and a detailed solution Readers may further hone their skills by visiting the text's Web site for additional problems and solutions This publication serves both as a textbook for engineering students and as a reference for engineers and technicians who need to ensure that air pollution control equipment operates efficiently and enables their facility to meet all air pollution control standards and regulations

**Industrial Waste Treatment Handbook** Frank Woodard, 2001-09-11 All industries produce waste products that unless treated or mitigated in some way will be harmful to the human or natural environment These waste products will generally need to be identified according to the industrial process in question neutralized or rendered less harmful and finally disposed of into the surrounding land air or watercourses It is therefore of vital importance to every environmental pollution or plant manager or engineer that these processes be fully understood and implemented or the cost to either the company or the environment can be catastrophic With increasing government regulation of pollution as well as willingness to levy punitive fines for transgressions and the ever present financial imperative to carry out these activities in the most efficient and cost effective manner it is the responsibility of the professionals in question to ensure that they have the most up to date information available at their disposal This book provides not only that but the only available methodology for identifying which waste types are produced from which industrial processes and how they can be treated This unique feature makes this book one that every environmental industrial and plant manager engineer and consultant will want to have on their bookshelf Essential aspect of and requirement for all manufacturing industry The only up to date book on this subject area available Takes a practical

applications standpoint not a theoretical approach      *Industrial Waste Treatment Handbook* Woodard & Curran Woodard & Curran Inc.,2011-08-30 *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

**Inventory of Federal Energy-related Environment and Safety Research for FY 1978: Project listings and indexes** ,1979      *Air Pollution Calculations* Daniel A. Vallero,2023-09-17 *Air Pollution Calculations* Quantifying Pollutant Formation Transport Transformation Fate and Risks Second Edition enhances the systems science aspects of air pollution including transformation reactions in soil water sediment and biota that contribute to air pollution This second edition will be an update based on research and actions taken since 2019 that affect air pollution calculations including new control technologies emissions measurement and air quality modeling Recent court cases regulatory decisions and advances in technology are discussed and where necessary calculations have been revised to reflect these updates Sections discuss pollutant characterization pollutant transformation and environmental partitioning Air partitioning physical transport of air pollutants air pollution biogeochemistry and thermal reactions are also thoroughly explored The author then carefully examines air pollution risk calculations control technologies and dispersion models The text wraps with discussions of economics and project management reliability and failure and air pollution decision making Provides real life current cases as examples of quantitation of emerging air pollution problems Includes straightforward derivation of equations giving practitioners and instructors a direct link between first principles of science and applications of technologies Presents example calculations that make scientific theory real for the student and practitioner      *Selected Water Resources Abstracts* ,1990-07      *Annales Geophysicae* ,1995      *Introduction to Environmental Management* Mary K. Theodore,Louis Theodore,2009-10-08 It is hard to imagine an area of study or a discipline in which a basic knowledge of the issues would not be beneficial since environmental concerns are very much in the public consciousness Written at a level that is accessible to students in all disciplines *Introduction to Environmental Management* translates complex environmental issues i



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