

## Air Pollution Control A Design Approach Solutions

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Air Pollution Control: A Design Approach, 2011, 839 pages ...

In an industrial setting, air pollution control equipment is an umbrella term referring to equipment and systems used to regulate and eliminate the emission of potentially hazardous substances—including particulate matter and gases—produced by manufacturing, process system, and research applications into the air, atmosphere, and surrounding environment.

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The emphasis of this article is air pollution control technology as it is designed to remove particulate and gaseous pollutants from the emissions of stationary sources, including power plants and industrial facilities. (The control of air pollution from mobile sources is described in emission-control system.)

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Air pollution control a design approach solution manual ... his book provided a decent overview of the subject of air pollution control, but didn't provide enough info. Unfortunately, it has a lot of gaps for the exercise problems that aren't answered in the text. Not providing all the necessary info makes it hard to score well on homework, and homework was 50% of my course grade.

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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<sub>x</sub> 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.

This design-oriented book discusses the causes, sources, effects & regulation of air pollution, plus the philosophy of design & economic

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analysis necessary for the effective control of air pollution.

Presents current methods for controlling air pollution generated at stationary industrial sources and provides complete coverage of control options, equipment and techniques. The main focus of the book is on practical solutions to air pollution problems.

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

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users for nearly 100 years.

In the debate over pollution control, the price of pollution is a key issue. But which is more costly: clean up or prevention? From regulations to technology selection to equipment design, Air Pollution Control Technology Handbook serves as a single source of information on commonly used air pollution control technology. It covers environmental regulations and their history, process design, the cost of air pollution control equipment, and methods of designing equipment for control of gaseous pollutants and particulate matter. This book covers how to: Review alternative design methods Select methods for control Evaluate the costs of control equipment Examine equipment proposals from vendors With its comprehensive coverage of air pollution control processes, the Air Pollution Control Technology Handbook is a detailed reference for the practicing engineer who prepares the basic process engineering and cost estimation required for the design of an air pollution control system. It discusses the topics in depth so that you can apply the methods and equations presented and proceed with equipment design.

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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

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readers, such as researchers, graduate students, engineers, policy makers and entrepreneurs.

Covers cost estimation, incineration, adsorption devices, flue gas desulfurization, control of nitrogen oxides, particulate emissions control, cyclonic devices, electrostatic precipitators, and fabric filters

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