

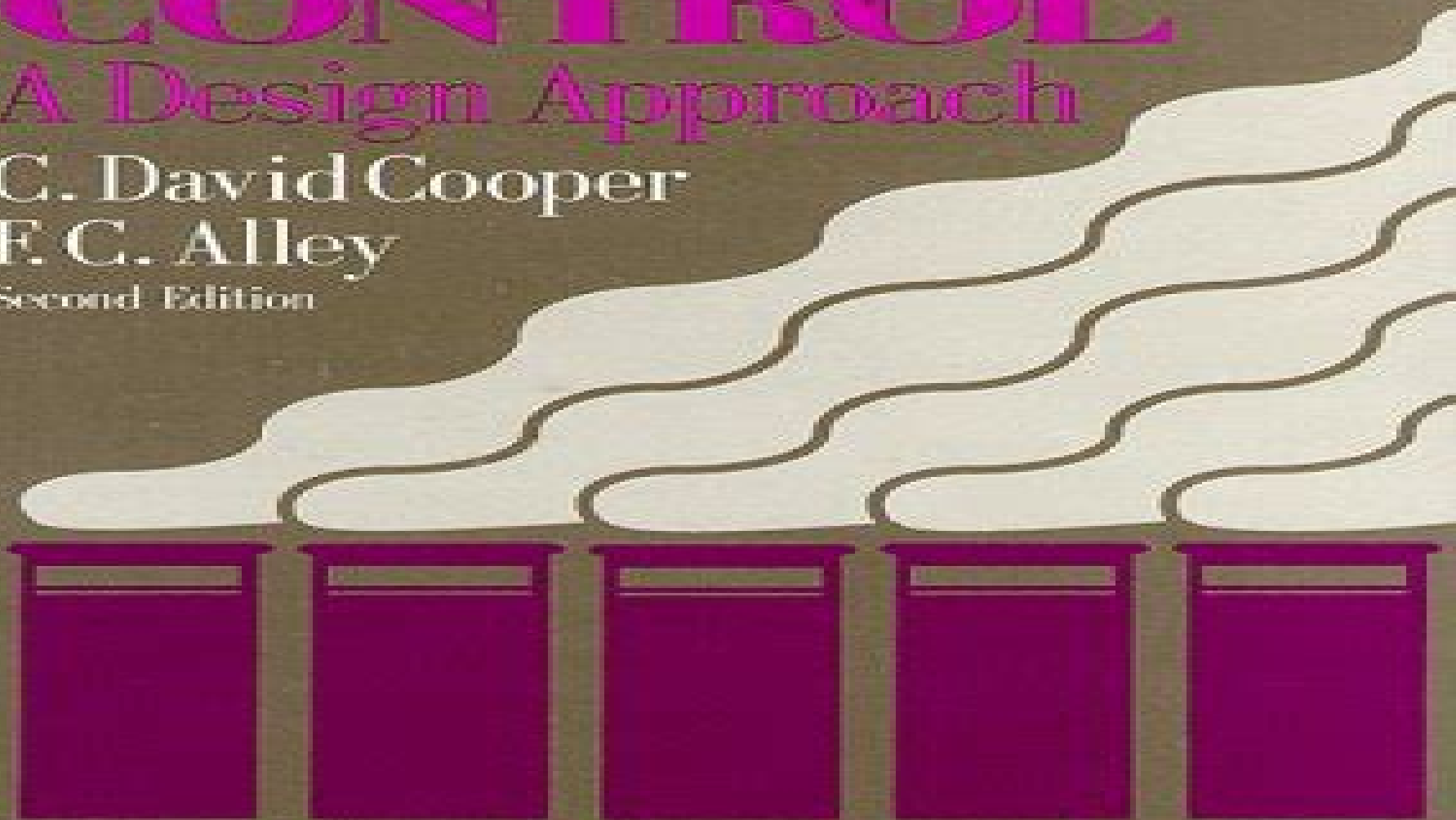
AIR POLLUTION CONTROL

A Design Approach

C. David Cooper

F. C. Alley

Second Edition



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Air Pollution Control A Design Approach Cooper:

Air Pollution Control C. David Cooper, F. C. Alley, 2010-08-25 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. **Air Pollution Control**, 2015 □□□□□□□□ □□□, 2000 **Solutions Manual to Accompany**

Air Pollution Control a Design Approach C. David Cooper, 1994 **Handbook of Air Pollution Prevention and Control** Nicholas P. Cheremisinoff, 2002-08-22 The Handbook of Air Pollution Prevention and Control provides a concise overview of the latest technologies for managing industrial air pollution in petrochemical, oil and gas, and allied industries. Detailed material on equipment selection, sizing, and troubleshooting operations is provided along with practical design methodology. Unique to this volume are discussions and information on energy efficient technologies and approaches to implementing environmental cost accounting measures. Included in the text are sidebar discussions, questions for thinking and discussing, recommended resources for the reader including Web sites, and a comprehensive glossary. The Handbook of Air Pollution Prevention and Control also includes free access to US EPA's air dispersion model SCREEN3. Detailed examples on the application of this important software to analyzing air dispersion from industrial processes and point sources are provided in the Handbook along with approaches to applying this important tool in developing approaches to pollution prevention and in selecting control technologies. By applying SCREEN3 along with the examples given in the Handbook, the user can evaluate the impact of processes and operations on air quality and apply the model to assess emergency scenarios to help in planning to develop environmental impact assessments, to select pollution control technologies, and to develop strategies for pollution prevention. Two companion books by Cheremisinoff are available: Handbook of Water and Wastewater Treatment Technologies and Handbook of Solid Waste Management and Waste Minimization Technologies. Uniquely, it combines prevention and control concepts while covering the practices and technologies that are applied to the prevention of air pollution in the chemicals, manufacturing, oil and gas, iron and steel, and pharmaceutical industries, and to the cleaning and control of industrial air emissions. Provides a bridge for today's environmental manager by focusing on an integrated

approach to managing air pollution problems within industrial operations Shows you how to calculate financial returns from pollution prevention projects **Air Pollution Control Engineering** Lawrence K. Wang, Norman C. Pereira, Yung-Tse Hung, 2004-07-02 A panel of respected air pollution control educators and practicing professionals critically survey the both principles and practices underlying control processes and illustrate these with a host of detailed design examples for practicing engineers The authors discuss the performance potential and limitations of the major control processes including fabric filtration cyclones electrostatic precipitation wet and dry scrubbing and condensation as a basis for intelligent planning of abatement systems Additional chapters critically examine flare processes thermal oxidation catalytic oxidation gas phase activated carbon adsorption and gas phase biofiltration The contributors detail the Best Available Technologies BAT for air pollution control and provide cost data examples theoretical explanations and engineering methods for the design installation and operation of air pollution process equipment Methods of practical design calculation are illustrated by numerous numerical calculations **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_x 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

Fundamentals of Air Pollution Engineering Richard C. Flagan, John H. Seinfeld, 2012 A rigorous and thorough analysis of the production of air pollutants and their control this text is geared toward chemical and environmental engineering students Topics include combustion principles of aerosol behavior theories of the removal of particulate and gaseous pollutants from effluent streams and air pollution control strategies 1988 edition Reprint of the Prentice Hall Inc Englewood Cliffs New Jersey 1988 edition Gasification Technologies John Rezaian, Nicholas P. Cheremisinoff, 2005-04-08 In contrast to traditional combustion gasification technologies offer the potential for converting coal and low or negative value feedstocks such as petroleum coke and various waste materials into usable energy sources or chemicals With a

growing number of companies operating and marketing systems based on gasification concepts worldwide this b

Advanced Air and Noise Pollution Control Lawrence K. Wang, Norman C. Pereira, Yung-Tse Hung, 2007-11-03 Leading pollution control educators and practicing professionals describe how various combinations of different cutting edge process systems can be arranged to solve air noise and thermal pollution problems Each chapter discusses in detail a variety of process combinations along with technical and economic evaluations and presents explanations of the principles behind the designs as well as numerous variant designs useful to practicing engineers The emphasis throughout is on developing the necessary engineering solutions from fundamental principles of chemistry physics and mathematics The authors also include extensive references cost data design methods guidance on the installation and operation of various air pollution control process equipment and systems and Best Available Technologies BAT for air thermal and noise pollution control

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