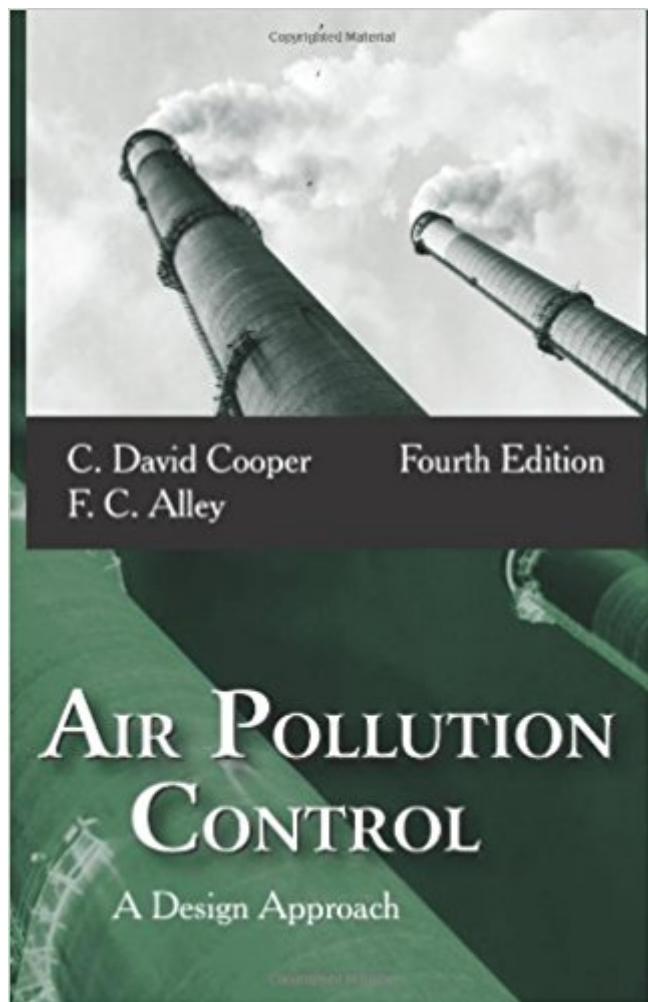


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# Air Pollution Control: A Design Approach



## **Synopsis**

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 NOx 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. Not-for-sale instructor resource material available to college and university faculty only; contact publisher directly. Titles of related interest also available from Waveland Press: Bishop, *Pollution Prevention: Fundamentals and Practice* (ISBN 9781577663485) and de Nevers, *Air Pollution Control Engineering, Third Edition* (ISBN 9781478629054).

## **Book Information**

Hardcover: 839 pages

Publisher: Waveland Pr Inc; 4 edition (September 1, 2010)

Language: English

ISBN-10: 157766678X

ISBN-13: 978-1577666783

Product Dimensions: 1.5 x 6 x 9 inches

Shipping Weight: 2.4 pounds (View shipping rates and policies)

Average Customer Review: 4.3 out of 5 stars 28 customer reviews

Best Sellers Rank: #63,917 in Books (See Top 100 in Books) #4 in Books > Engineering & Transportation > Engineering > Civil & Environmental > Environmental > Pollution #233 in Books > Science & Math > Earth Sciences > Environmental Science #526 in Books > Science & Math > Environment

## **Customer Reviews**

"I loved the previous edition, and this edition is even better. The addition of the CO2 chapter is

excellent." -- Marko Princevac, University of California, Riverside "This is a classic textbook. I have used the second, third, and now the fourth editions over the past fifteen years. I like the detailed coverage of critical control technologies and its application to real-world solutions. Students prefer the textbook for its problem-solving approaches and rigorous worked examples." -- John Kuruvilla, University of North Texas "One of the best books in air pollution." -- Shekar Viswanathan, San Diego State University "This new edition is a timely publication of emerging topics such as CO2 control and indoor air quality." -- Chang-Yu Wu, University of Florida "I liked the third edition, so I am very much pleased with the fourth. Inclusion of the chapter on carbon sequestration is quite beneficial. My thanks to the authors!" -- Stephen Zemba, Tufts University

fantastic book, as an environmental engineer i use this book constantly. no matter what the need is for my air pollution problems, this book has the solutions! easy to read, great diagrams, and pictures. Gives me all the information i need to design any control device. I highly praise cooper for this book. Seriously fantastic reference material. i used it a lot as a student and now i use it as a professional. great book. Just great practice problems and examples. even has cost estimates!

This book was suggested to me by several people in my Environmental Engineering PE Prep course. I begrudgingly purchased it and it was very, very helpful on several PE exam questions. The sections on Baghouses, Cyclones, and ESPs have more depth than the Lindeburg Environmental PE book. I recommend it if you are taking the Environmental Engineering PE.

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.

Good basic manual for industrial air pollution control. However, this classic book is starting to fall behind as technology in air pollution control advances. Cooper Alley sticks with only the most very fundamental aspects of pollution control. Overall a good manual for the student or engineer, but if you are looking for an introduction to a broad range of controls, a web search might provide better results.

The book was written in, and the book felt a little loose. Good book tho.

Excellent reference for the PE Environmental Engineering exam

Textbook arrived as prompted by seller. Textbook makes a lot of assumptions and homework doesn't easily match concept or examples.

This book is essential for the PE exam. The answers for a lot of the air-related questions on the PE exam can be found in this book. Make sure you go through this book and highlight and/or tag information you think will help you out in the exam.

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