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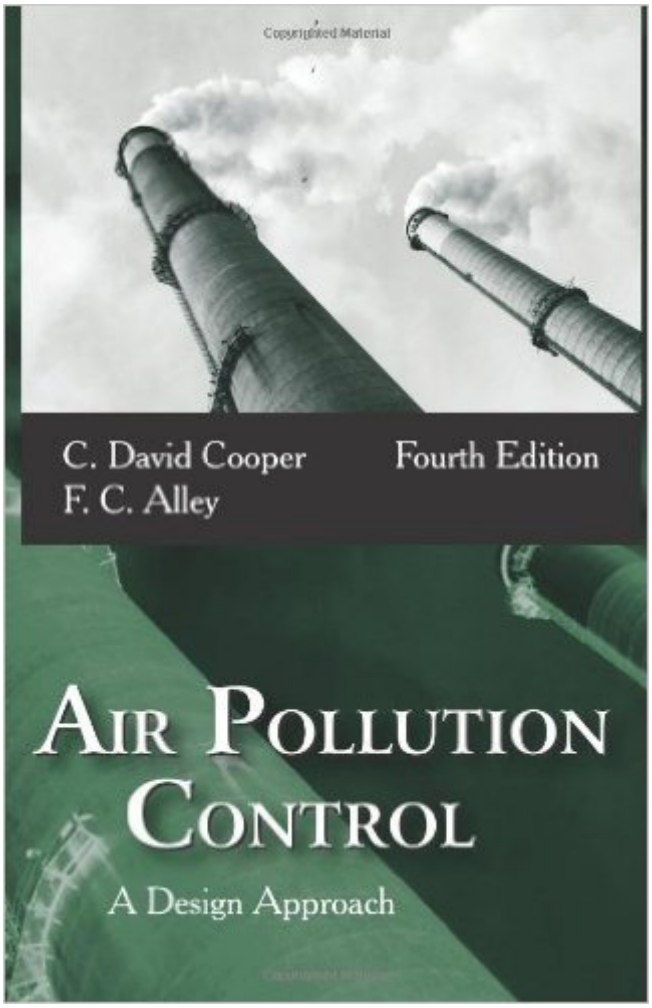
Air Pollution Control: A Design Approach



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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.

Book Information

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Customer Reviews

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.

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.

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!

With 40 years of experience as a chemical engineer I wanted a good text on APC control. This one was highly rated. I find it useful for my work and agree with the high ratings. The seller (Dana4022) was also timely and accurate - book’s condition was better than rated and delivered in 2 days (standard shipping)!

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.

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.

This is an excellent textbook on the subject of air pollution control. It is straightforward, well-organized, and exceedingly thorough. I found it to be an invaluable resource for understanding and resolving design issues on a research project at a NASA facility.

If this is required for your class, then you don’t really have a choice. The solution manual is out there

if you can find it. I didn't have it for my class but given the homework scores were near perfect for more than half the class and the questions are difficult, you kinda just know. If you're using this as a desk reference or want to learn about air pollution, I would think there is something better out there. It's not very well written and the examples aren't great. It did have some great tables and good references but that's really about it.

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