



Air Pollution Control: A Design Approach

By C. David Cooper, F. C. Alley

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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.

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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).

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Editorial Review

From the Back Cover

"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*

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From reader reviews:

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