



Fundamentals of Air Pollution, Third Edition

By Richard W. Boubel, Daniel Vallero, Donald L. Fox, Bruce Turner, Arthur C. Stern

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Fundamentals of Air Pollution, Third Edition By Richard W. Boubel, Daniel Vallero, Donald L. Fox, Bruce Turner, Arthur C. Stern

This new edition of the premier air pollution textbook is completely updated and revised to include all components of the 1990 Clean Air Act Amendments.

Fundamentals of Air Pollution, Third Edition covers the spectrum of topics pertinent to the study of air pollution: elements, sources, effects, measurement, monitoring, meteorology, and regulatory and engineering control. In addition, the textbook features new chapters on atmospheric emissions from hazardous waste sites, air pathways from hazardous waste sites, and the long-term effects of air pollution on the earth. It also presents updated information on acidic development, long-distance transport, atmospheric chemistry, and mathematical modeling. With extensive references, suggested reading lists, questions, and new figures and tables, this text will serve as an invaluable resource for students and practitioners alike.

* This new edition features coverage of: Regulatory requirements of the Clean Air Act Amendments of 1990 New developments in the modelling of air quality Air pollution control Air pollution engineering/atmospheric chemistry

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Editorial Review

Review

"The book is a compendium for all involved directly or indirectly in decision making about air pollution control--regulatory or engineering. Nowhere will the non-specialist find a more concise, technically correct answer to tantalizing problems, such as acidic deposition, the cost of abatement, effects (real, not imaginary) or uncertainties which still subsist."

--THE SCIENCE OF TOTAL ENVIRONMENT (1985)

"An excellent and multidisciplinary overview of the many varied aspects related to air pollution....An interesting publication particularly for those not being experts and wanting to know more about air pollution."

--WATER, AIR AND SOIL POLLUTION (1985)

"The three authors are recognized leaders in their respective fields, who have combined their skills to update and develop this edition of this book....This book is an outstanding place to begin learning about any number of air pollution topics and how these topics relate to other problems in air pollution."

--AMERICAN SCIENTIST

"This text is an easy-to-read book about six major aspects of air pollution...This book could serve as an excellent textbook for an undergraduate curriculum dealing with environmental issues."

--AMERICAN SCIENTIST

"It makes a handy reference book...and a solid textbook for a first course in air pollution. This book is an excellent introductory text to regional and local tropospheric air pollution issues, policy and regulations. I highly recommend this book to anyone interested in understanding the basic concepts of tropospheric air pollution."

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From the Back Cover

Fundamentals of Air Pollution, Third Edition, is an invaluable resource for students and practitioners alike. This new edition of the premier air pollution textbook is completely updated and revised to include all components of the 1990 Clean Air Act Amendments. It covers the spectrum of topics pertinent to the study of air pollution: elements, sources, effects, measurement, monitoring and meteorology. In addition, the textbook features new chapters on atmospheric emissions and air pathways from hazardous waste sites and the long-term effects of air pollution on the earth. This text also presents new developments in the modeling of air quality and air pollution control, updated information on acidic development, long-distance transport, atmospheric chemistry, and mathematical modeling.

About the Author

Dr. Daniel A. Vallero is an internationally recognized expert in environmental science and engineering. His four decades of research, teaching and professional experience in hazardous waste engineering and management have addressed a wide range of human health risk and ecological issues, from global climate change to the release of hazardous wastes. His research has advanced the state-of-the-science of air and water pollution measurement, models of potential exposures to chemicals in consumer products, and environmental impact assessments.

He established the Engineering Ethics program and is a key collaborator in the Responsible Conduct of Research Program at Duke University. These programs introduce students, from first-year through PhD, to

the complex relationships between science, technology and societal demands on the engineer. The lessons learned from the cases in this book are a fundamental part of Duke's preparation of its future engineers to address the ethical dilemmas likely to be encountered during the careers of the next generation engineers.

Dr. Vallero received a bachelor's degree from Southern Illinois University, a Master of Science in City & Regional Planning from SIU, a Masters in Civil & Environmental Engineering (Environmental Health Sciences) from the University of Kansas, and a PhD in Civil & Environmental Engineering from Duke.

Users Review

From reader reviews:

Esther Cunningham:

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