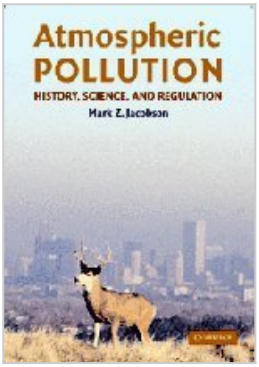

Atmospheric Pollution: History, Science, and Regulation

By Professor Mark Z. Jacobson

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This book provides a comprehensive introduction to the history and science of major air pollution issues. It begins with an introduction to the basic atmospheric chemistry and the history of discovery of chemicals in the atmosphere, and then moves on to a discussion of the evolution of the earth's atmosphere, and the structure and composition of the present-day atmosphere. It also offers a comprehensive and accessible discussion of the five major atmospheric pollution topics: urban outdoor air pollution, indoor air pollution, acid deposition, stratospheric ozone reduction, and global climate change.

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Editorial Review

Review
"...will be highly valued in environmental science curricula for its integrated approach to the scientific dimensions of all aspects of the atmospheric environment..." Chemical Heritage

"It integrates conventional textbook material on the science of air pollution with a wealth of historical information on the key discoveries in the field, brought to life with potted biographies and anecdotal sketches, all vividly illustrated with photographs, figures, satellite images and more...sufficiently rigorous and comprehensive to be useful to students of environmental science and others with its up-to-date material, easy style, problems and examples and outstanding illustrations...packed with enough quantitative and qualitative information to form the basis of a lecture course, or to act as a primer for general reader interested in the whole issue of air pollution. I do not think that there is a better book for engaging interest in the science of air pollution and I, for one, will certainly be recommending it to my second-year students." Chemistry in Britain

"Jacobson, a prolific and well-regarded author, offers a clearly structured book designed for use in courses.... Recommended." Choice

"...I will be very surprised if this does not become one of the standard texts in this field, especially for environmental science courses at undergraduate and postgraduate level, as well as a general reference and sourcebook for anybody interested in the history of airborne pollutants and their study, pollution meteorologists and atmospheric chemists." Weather

"...provides a novel perpsective on air pollution by examining the historical developments of air pollution science and regulation prior to presenting information on the major air pollution issues of today...insightful interpretations...[The book] teaches a valuable lesson about historical successes in controlling air pollution. This will likely make the text well suited for individuals or courses with an interest in the history of air pollution science and regulation." EOS

"Mark Jacobson's new undergraduate textbook Atmospheric Pollution: History, Science, and Regulation captures important parts of the vast panorama of science and human experience related to the atmosphere...His book covers a field so large that no previous text has satisfactorily reflected the full array of problems and issues...[it] may be the best available...The text is highlighted with interesting stories that dig deeper than most anecdotes...The book carefully builds a framework for understanding atmospheric issues, and that framework provides a solid basis for examining what might be done to address those issues...it is a well-rounded introduction to problems of the atmosphere and offers rich material for students contemplating their solutions." Physics Today

About the Author
Mark Z. Jacobson is Director of the Atmosphere/Energy Program and Professor of Civil and Environmental Engineering at Stanford University. He is also a Senior Fellow of the Woods Institute for the Environment and of the Precourt Institute for Energy. He has been on the faculty at Stanford since 1994. His research involves the development and application of numerical models to understand the effects of energy systems, vehicles and other emission sources on climate and air pollution and the analysis of renewable energy resources. He received the 2005 American Meteorological Society Henry G. Houghton Award, based in part

on his discovery that black carbon may be the second-leading cause of global warming after carbon dioxide. He co-authored a 2009 cover article in Scientific American (with Dr Mark DeLucchi) on how to power the world with renewable energy. In 2010 he was appointed to the Energy Efficiency and Renewables Advisory Committee by the US Secretary of Energy. He has taught courses on Atmospheric Pollution and Climate; Weather and Storms; Air Pollution Modeling; and Numerical Weather Prediction. He has published over 110 peer-reviewed journal articles and another textbook: Fundamentals of Atmospheric Modeling (Second Edition, 2005; Cambridge University Press).

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