



Air Quality, Fifth Edition

By Thad Godish, Wayne T. Davis, Joshua S. Fu

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The fifth edition of a bestseller, **Air Quality** provides students with a comprehensive overview of air quality, the science that continues to provide a better understanding of atmospheric chemistry and its effects on public health and the environment, and the regulatory and technological management practices employed in achieving air quality goals. Maintaining the practical approach that has made previous editions so popular, the chapters have been reorganized, new material has been added, less relevant material deleted, and new images added, particularly those from Earth satellites.

See What's New in the Fifth Edition:

- New graphics, images, and an appended list of unit conversions
- New problems and questions
- Revisions and updates on the regulatory aspects related to air quality, emissions of pollutants, and particularly in the area of greenhouse gas emissions
- Updated information on topics that affect air quality such as global warming, climate change, international issues associated with air quality and its regulation, atmospheric deposition, atmospheric chemistry, and health and environmental effects of atmospheric pollution

Written in Thad Godish's accessible style, the book clearly elucidates the challenges we face in our fifth decade of significant regulatory efforts to protect and enhance the quality of the nation's air. It also highlights the growing global awareness of air quality issues, climate change, and public health concerns in the developing world. The breadth of coverage, review questions at the end of each chapter, extensive glossary, and list of readings put the tools for understanding in your students' hands.

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Editorial Review

Review

"This textbook is accessible to a wide audience and can be used for science and non-science majors. It offers a comprehensive review of all the major air quality issues and presents them in a balanced, logical, and scientific manner. The author offers many examples that demonstrate that air pollution is more than a regional issue, creating a scientific basis for global climate change."

?Charles Venuto, American Public University, Charles Town, West Virginia, USA

"There is a timelessness about Godish. This book has been a comforting support throughout my own development from undergraduate to educator. Previous editions of **Air Quality** by Thad Godish have sat comfortably on shelves globally for decades. These dog-eared tomes have fostered sound principles in generations of environmental scientists. This **Fifth Edition**, authored by Professor Fu and Professor Davis, honours this legacy. As in previous iterations, the language is simple but precise; scientific terms are explained in a holistic sense. For the beginner, this book is pioneering instruction; for the veteran practitioner, it is an old friend in new clothing. If you are considering investing your time in this book, don't hesitate?it is indeed a trustworthy companion."

?Chris McCormack, Athlone Institute of Technology, Ireland

"The **Fifth Edition** has updated the most recent scientific findings of several pollution issues. For example, ozone depletion, and its definition and mechanism of formation, is highlighted. The Arctic Sea ice extension, the sea ice depth in the Arctic Basin, future ozone precursors such as NO_x, changes in ozone, and global warming trends under the various IPCC established scenarios are described extremely well in the book. Chapter eight updates the recent changes in the NAAQSs, including the SO₂, NO₂, and PM_{2.5} pollutants. In addition, source emission standards for Hg, PM, SO₂, and the effort and progress in reducing greenhouse gases such as CO₂ are outlined as subjects of continued interest in the future. Overall, this is an excellent book for students who will pursue careers in environmental science. It can be offered as the core textbook for both lecture and online classes."

?Gong-Yuh Lin, California State University, Northridge, USA

"This is a well-designed and supported overview of the key air quality science subject matter as well as good introductions into new developments in air quality science. This text could be applied to air quality science courses across a variety of disciplines, from environmental science and engineering to environmental public health."

?Erik Svendsen, PhD, Tulane University School of Public Health and Tropical Medicine, New Orleans, Louisiana, USA

"... useful to get a quick and superficial overview about topics such as basic atmospheric substances, their reactions, and their dynamics."

?Prof. Dr. Tunga Salthammer, from *Gefahrstoffe - Reinhaltung der Luft*, July/August 2015

About the Author

Wayne T. Davis is currently the dean of engineering at the University of Tennessee Knoxville (UTK). He served as associate dean for Research and Technology in the college from 2003 to 2008. He is also a

professor of Civil and Environmental Engineering. He earned his AB in physics from Pfeiffer University (1969), MS in physics from Clemson (1971), and MS in environmental engineering and PhD in civil engineering from UTK (1973 and 1975, respectively). He has conducted research and teaching in the area of air quality management and pollution control for more than 42 years at UTK, and is the author/coauthor/editor of numerous research publications including the *Air Pollution Control Engineering Manual* (published by John Wiley Publishers) and the graduate textbook *Air Pollution: Its Origin and Control* (published by Elsevier). He has been involved in numerous projects funded by the U.S. EPA, DOE, ORNL, NSF, DOT, and various state agencies and industrial companies, particularly as related to the monitoring and control of sulfur dioxide, ozone/precursors, and particulate matter. He is a recipient of the Lyman Ripperton Outstanding Professor Award presented by the International Air and Waste Management Association (AWMA), where he is a fellow member; he also received a Lifetime Achievement Award from the Institute of Professional and Environmental Practice (Pittsburgh, PA) in 2007. Dr. Davis served as chair of the Knox County Air Pollution Control Board for more than 22 years and currently serves on the State of Tennessee's Air Pollution Control Board.

Joshua S. Fu is a professor at the Department of Civil and Environmental Engineering at the University of Tennessee Knoxville (UTK). He was a scientific applications analyst and software engineer at Lockheed Martin/EPA before he moved to UTK in 2000. He earned his BS in environmental engineering from National Cheng Kung University (1986), MS in environmental engineering and water resources from UCLA (1994), and PhD in civil engineering from North Carolina State University (2000). The focus of his research work includes air benefit and attainment assessment, emission estimations, development of emission control strategies, ozone and particulate matter modeling, international air quality modeling assessment, and global climate change effects of air quality. He has taught courses in the area of air quality management and pollution control at UTK, and is the author of numerous research publications and serves as a journal editor for the *Journal of the Air & Waste Management Association*. One of his publications on air quality has been recognized by Elsevier as one of the most cited articles in *Atmospheric Environment* during 2007 to 2012. He has been a principal investigator and coinvestigator for numerous projects funded by the U.S. EPA, DOE, ORNL, NASA, CDC, DOT, USDA, various state agencies, and industrial companies. He has received numerous research awards from the Chancellor, College of Engineering, and his department at UTK and ORNL. He is also actively involved in the UN ECE Task Force Hemispheric Transport of Air Pollution and Model Intercomparison Study in Asia. Dr. Fu also serves on the Knox County Air Pollution Control Board in Tennessee.

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