



Elements of Environmental Chemistry

By Ronald A. Hites, Jonathan D. Raff

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From Reviews of the First Edition:

"This splendid, at times humorous, and reasonably priced little book has much to commend it to undergraduate chemists and to other science students." —J. G. Farmer, University of Edinburgh

"Complex environmental issues are presented in simple terms to help readers grasp the basics and solve relevant problems." —J. Albaiges, University of Barcelona

"The main strength of the book lies in its explanations of the calculation of quantitative relationships. Each chapter includes 15-20 problems that are carefully chosen from a didactic standpoint, for which the reader can find solutions at the end." —D. Lenoir, Institute for Ecological Chemistry

"What drew me to the first edition was the style – the no nonsense, down-to-earth explanations and the practical examples that litter the text. The dry humor expressed in the footnotes is great and reminds me of other classic texts." —T. Clough, Lincoln University

A practical approach to environmental chemistry

Providing readers with the fundamentals of environmental chemistry and a toolbox for putting them into practice, *Elements of Environmental Chemistry, Second Edition* is a concise, accessible, and hands-on volume designed for students and professionals working in the chemical and environmental sciences.

Tutorial in style, this book fully incorporates real-world problems and extensive end-of-chapter problem sets to immerse the reader in the field. Chapters cover mass balance, chemical kinetics, carbon dioxide equilibria, pesticide structures and much more. Extensively revised, updated, and expanded, this Second Edition includes new chapters on atmospheric chemistry, climate change, and polychlorinated biphenyls and dioxins, and brominated flame retardants. In addition, new practice problems and a helpful tutorial on organic chemistry names and structures have been added to improve both the scope and accessibility of the book.

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Editorial Review

Review

“Overall, this is an instructive text for undergraduate environmental chemists (and their lecturers), punching well above what its compact format might initially suggest.” (*Chemistry World*, 1 January 2013)

“A student who reads this book and works the problems will have some improved insight into environmental chemistry and will, if successful and hardworking, be a whiz at solving environmental and many other chemistry problems. Summing Up: Recommended. Lower-division undergraduates through researchers/faculty.” (*Choice*, 1 November 2012)

From the Back Cover

The basics of environmental chemistry and a toolbox for solving problems

Elements of Environmental Chemistry uses real-world examples to help readers master the quantitative aspects of environmental chemistry. Complex environmental issues are presented in simple terms to help readers grasp the basics and solve relevant problems. Topics covered include: steady- and non-steady-state modeling, chemical kinetics, stratospheric ozone, photochemical smog, the greenhouse effect, carbonate equilibria, the application of partition coefficients, pesticides, and toxic metals. Numerous sample problems help readers apply their skills. An interactive textbook for students, this is also a great refresher course for practitioners.

About the Author

Ronald A. Hites, PhD, is a Distinguished Professor in the School of Public and Environmental Affairs at Indiana University. He is a Fellow of the American Chemical Society and of the American Association for the Advancement of Science. He has been an editor of *Environmental Science and Technology* since 1990.

Jonathan D. Raff, PhD, is an Assistant Professor in the School of Public and Environmental Affairs at Indiana University. He was the recipient of a National Science Foundation American Competitiveness in Chemistry Postdoctoral Fellowship and a United States Environmental Protection Agency STAR Graduate Fellowship.

Users Review

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