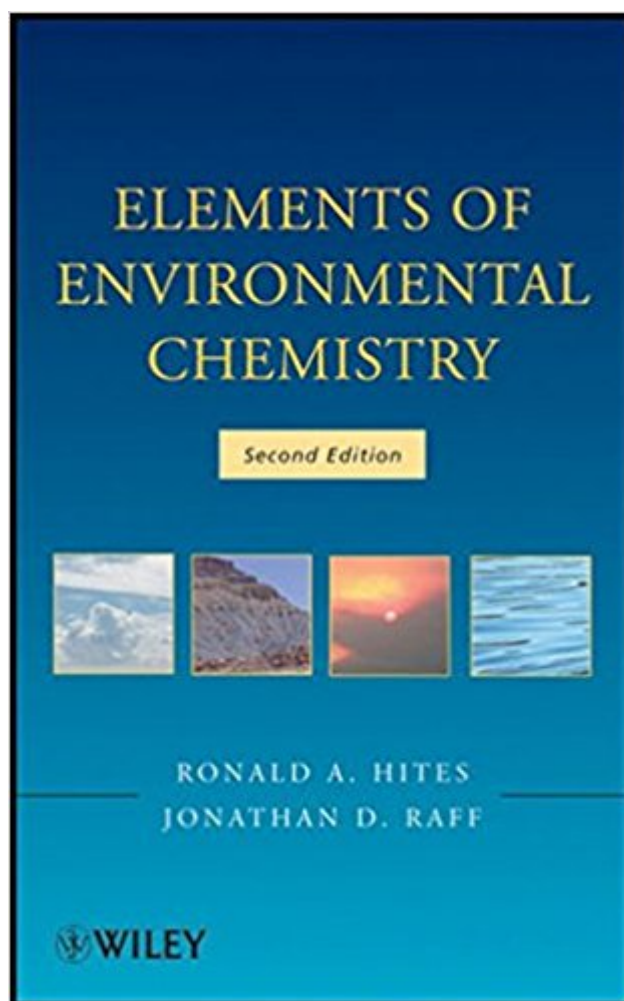


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# Elements Of Environmental Chemistry



## Synopsis

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." &#151;J. G. Farmer, University of Edinburgh "Complex environmental issues are presented in simple terms to help readers grasp the basics and solve relevant problems." &#151;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." &#151;D. Lenoir, Institute for Ecological Chemistry "What drew me to the first edition was the style &#150; 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." &#151;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.

## Book Information

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## Customer Reviews

“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)

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. --This text refers to an out of print or unavailable edition of this title.

Ok, this book is incredibly useless. The chapters themselves do not actually cover the material very well, then asks questions at the end that assume you know every last detail of anything. For example, it asks a question about how many tires are in a dump when they do not tell you the size of the tires. It asks you for the volume of a garage and it gives you no dimensions or anything to find the dimensions. What was the editor smoking!

This book is OK ....but not great. If details were provided on how to answer the problems were available in another book, I would give it an excellent review. Unfortunately my abilities to solve the questions is limited to about 75% of the problems. I would really like more help to do the remaining 25%. While this is likely a reflection on my own abilities, I can not give a five star rating to a book that does not allow me to learn thoroughly.

I am extremely impressed by the 2nd Edition of "Elements of Environmental Chemistry". It begins with a set of useful skills for addressing problems frequently encountered in Environ Chem. For most students this should be a refresher. Regardless, I suspect that it will help many to make greater use of concepts that they have encountered but not fully absorbed. The second chapter continues with knowledge -- mass balance and kinetics -- needed to deal with frequently encountered environmental problems. The subsequent chapters introduce the major topics in Environmental Chemistry, including the chemistry responsible for air pollution/smog, climate change, pesticides, persistent organic pollutants, dioxins and flame retardants. The writing style is clear and frequently compelling -- at times you feel like you might be reading an article in the New Yorker. A case in point is the chapter on PCBs, dioxins and flame retardants, beginning with the disease that the Japanese called "Yusho". Not only is the text entertaining, so are many of the problems. This book contains one of the best sets of "real world" problems that I have encountered. Some of the problems are used as teaching examples and solved in the text. The answers to all of the problems are listed at the back of the text. I recommend this book to anyone studying or working in the area of environmental chemistry.

If you are in a class that uses this book, you have my sympathy. This is a worthless excuse for a textbook. It provides almost no instruction on how to actually do problems, skips steps, and makes outrageous assumptions.

This book is superbly written and very straightforward. I absolutely loved the footnotes; they are humorous and clever. I will definitely buy the 2nd edition.

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