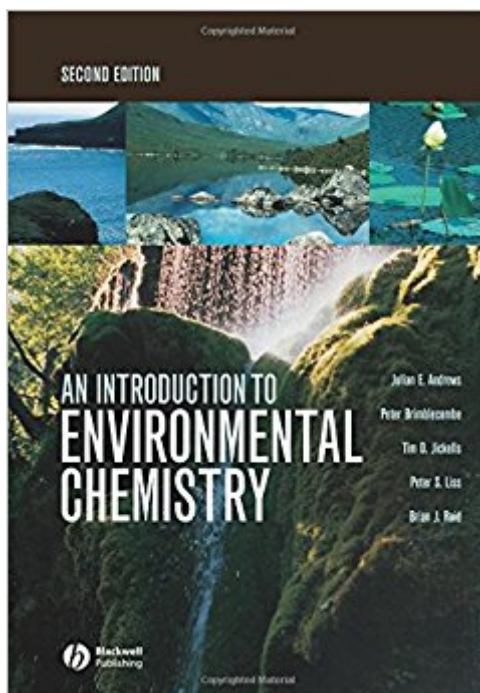


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An Introduction To Environmental Chemistry



Synopsis

This introductory text explains the fundamentals of the chemistry of the natural environment and the effects of mankind's activities on the earth's chemical systems. Retains an emphasis on describing how natural geochemical processes operate over a variety of scales in time and space, and how the effects of human perturbation can be measured. Topics range from familiar global issues such as atmospheric pollution and its effect on global warming and ozone destruction, to microbiological processes that cause pollution of drinking water deltas. Contains sections and information boxes that explain the basic chemistry underpinning the subject covered. Each chapter contains a list of further reading on the subject area. Updated case studies. No prior chemistry knowledge required. Suitable for introductory level courses.

Book Information

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Customer Reviews

"I can strongly recommend this book as a basic text for all those who wish to gain an initial understanding of the chemistry of the Earth and the way humans are interacting with their environment." Peter O'Neill, University of Plymouth, *Progress in Physical Geography*, June 2005

"Overall, this book is a valuable addition to reading lists for students taking undergraduate level courses primarily in Environmental Science, but also in Physical Geography, Earth Sciences and Environmental Chemistry. It is very readable and well written." *International Journal of Climatology*, April 2006

"If I had to recommend one single textbook for courses in environmental science to students and all those interested from other fields, it would be this one. It is an excellent introductory reader and learning aid." *Environmental Biology*

Environmental chemistry is now a key part of many environmental, earth and life science courses. An understanding of the fundamental chemistry implicit in the subject is important, but students must also be familiar with aspects of mineralogy, oceanography, soil science, sedimentology and microbiology, to name just a few of the cross-over areas. The second edition is fully revised and expanded to provide a concise but thorough introduction to the subject in its widest sense. The book retains an emphasis on describing how natural geochemical processes operate over a variety of scales in time and space, and how the effects of human perturbations can be measured. Topics range from familiar global issues such as atmospheric pollution and its effect on global warming and ozone destruction, the link between chemistry and productivity in the oceans, through contamination of soils by synthetic organic chemicals, to the microbiological processes that cause pollution of drinking water in deltas. The book contains sections and information boxes that explain the basic chemistry underpinning the subjects covered. These boxes will help students with little or no previous chemical background to enter this fascinating subject.

For beginners in environmental sciences, this book will be an excellent guide to different issues such as: Water, soil and atmosphere chemistry. Each chapter is well organized, and the structure of the book is quite easy to follow. If you are looking for some good introductory book for your undergraduate courses of environmental chemistry, well, this is your book. On the contrary, if what you need is a more detailed review of soil, water or air pollution, I recommend you to look out for a more advanced book in that specific matter.

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