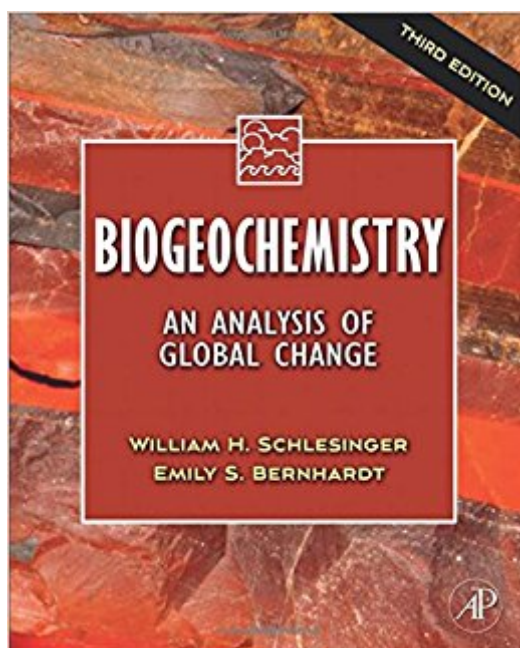




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Biogeochemistry: An Analysis Of Global Change, 3rd Edition



Synopsis

Biogeochemistry is a winner of a 2014 Textbook Excellence Award (Texty) from the Text and Academic Authors Association. It considers how the basic chemical conditions of the Earth, from atmosphere to soil to seawater, have been and are being affected by the existence of life. Human activities in particular, from the rapid consumption of resources to the destruction of the rainforests and the expansion of smog-covered cities, are leading to rapid changes in the basic chemistry of the Earth. This expansive text pulls together the numerous fields of study encompassed by biogeochemistry to analyze the increasing demands of the growing human population on limited resources and the resulting changes in the planet's chemical makeup. The book helps students extrapolate small-scale examples to the global level, and also discusses the instrumentation being used by NASA and its role in studies of global change. With extensive cross-referencing of chapters, figures and tables, and an interdisciplinary coverage of the topic at hand, this updated edition provides an excellent framework for courses examining global change and environmental chemistry, and is also a useful self-study guide. Winner of a 2014 Texty Award from the Text and Academic Authors Association. Calculates and compares the effects of industrial emissions, land clearing, agriculture, and rising population on Earth's chemistry. Synthesizes the global cycles of carbon, nitrogen, phosphorous, and sulfur, and suggests the best current budgets for atmospheric gases such as ammonia, nitrous oxide, dimethyl sulfide, and carbonyl sulfide. Includes an extensive review and up-to-date synthesis of the current literature on the Earth's biogeochemistry.

Book Information

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Customer Reviews

"Biogeochemistry is a multidisciplinary field that studies the interactions, over both human and geological timescales, of living things and the earth's chemical cycles. Throughout the book there is a focus on the ways in which humans have intervened in these cycles in recent times."--Reference & Research Book News, October 2013 "[The third edition of] the now classic text by Bill Schlesinger not only updates, but expands upon the earlier editions. This is a must read, one stop shop for a basic, yet detailed text on contemporary biogeochemical cycles, writ large. While the author does describe basic cycles in an historical context, the primary focus is on contemporary cycles, their interactions, and the effects of humans on them. A tour de force that will be referred to often, the book is a must-read for anyone working in the general area of biogeochemistry."--Paul Falkowski, Rutgers University "A comprehensive treatment of the field of Biogeochemistry, which is both expanding rapidly and becoming increasingly important for helping identify sustainability. We can't all be specialists on all of these topics, but this book will quickly bring you up to speed on a full range of biogeochemical processes and cycles. A read and reference for every serious Earth Systems scientist and student."--Eric Davidson, The Woods Hole Research Center "The new edition of William Schlesinger's Biogeochemistry offers a clearly written, well-documented introduction to what every person should know if we are to navigate successfully to a sustainable future for our planet."--Michael McElroy, Harvard University

Dr. Schlesinger is one of the nation's leading ecologists and earth scientists and a passionate advocate for translating science for lay audiences. A member of the National Academy of Sciences, he has served as dean of the Nicholas School of the Environment at Duke and president of the Cary Institute of Ecosystem Studies. He lives in Down East Maine and Durham, N.C. and continues to analyze the impacts of humans on the chemistry of our natural environment. Dr. Emily S. Bernhardt is Assistant Professor at Duke University in the Department of Biology. She currently teaches biogeochemistry. A graduate of University of North Carolina Chapel Hill (B.S) and Cornell University (PhD.) and her areas of interest include biogeochemistry, ecosystem ecology, stream and wetland ecology, urban ecology, and restoration ecology.

Not that there are a lot of alternatives, but this is really the best book on the topic and the update was long overdue. It is tedious to read, but incredibly rich in detail and brilliantly organized. It is very

comprehensive. It is a textbook/reference, so one should not expect it to be easy reading. I would rank this close to the top among the hundreds and hundreds of textbooks/references I have read or used in my 20 years. I rarely give 5 stars to a book, but this really is brilliant.

This book is a clear and thorough read. It contains many great case examples, and I didn't find myself confused at any part reading through it. That being said, the appendix is atrocious. You're better off just perusing the chapter that may contain a particular concept than checking the appendix. The problem sets are a bit confusing and unclear. It can be difficult to know what the authors are asking, and the methods to calculate the answers are often not explicit.

An absolute standard in Biogeochemistry. The price goes up and down on this product, so it's wise to use a price watch to catch it at the best time. No Environmental Science student should be caught without a copy of this.

I read the second edition as an undergraduate, and then picked this up to prep for my comprehensive PhD exams. I read it cover to cover in three weeks and found it immensely helpful. It's been meticulously updated and reorganized, and it's beautifully written. Straightforward and clearly written.

Who knew biogeochemistry could be so fascinating to somebody not in the field. It's big but it reads well and is packed full of great information.

I used this book in an undergraduate course and found it a hard read. It is full of information and the authors go a good a job explaining things thoroughly.

great info

I was required to buy this textbook for a class. It has been very helpful with the topics we are covering.

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