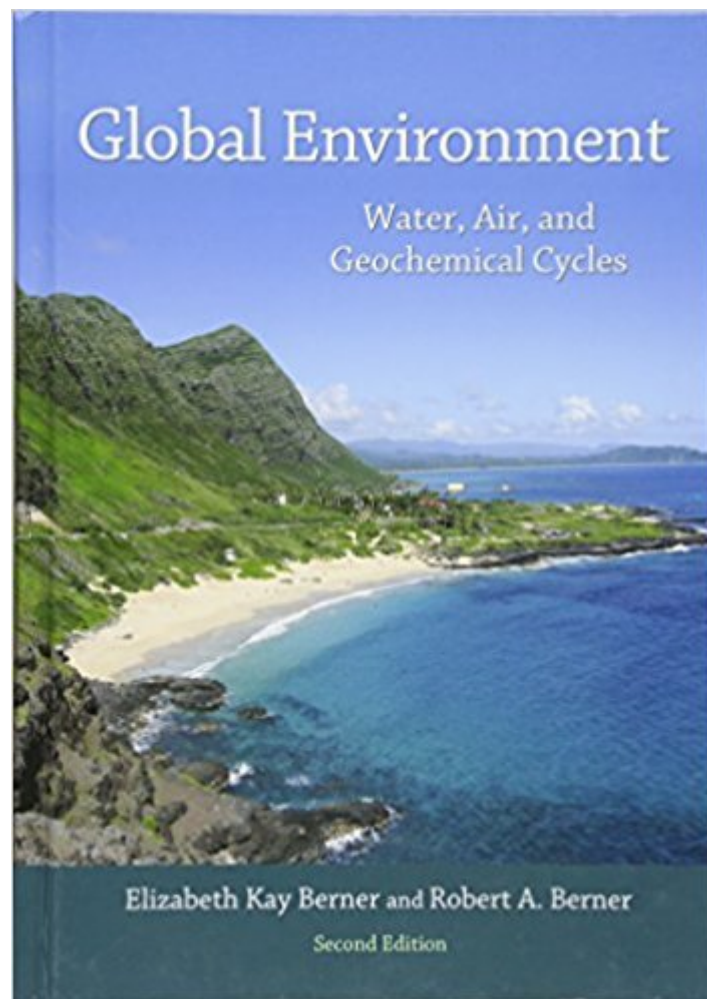




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# **Global Environment: Water, Air, And Geochemical Cycles, Second Edition**



## Synopsis

This newly revised edition of *Global Environment* discusses the major elements of the geochemical cycles and global fluxes found in the atmosphere, land, lakes, rivers, biota, and oceans, as well as the human effects on these fluxes. Retaining the strengths of the original edition while incorporating the latest discoveries, this textbook takes an integrated, multidisciplinary, and global approach to geochemistry and environmental problems and introduces fundamental concepts of meteorology, surficial geology (weathering, erosion, and sedimentation), biogeochemistry, limnology, and oceanography. New concepts and information in this updated edition include changes of atmospheric carbon dioxide over geologic time, major advances in the study of chemical weathering of rocks, ocean acidification, and important environmental problems, such as the amelioration of the acid rain problem due to reduction in sulfur deposition, problems with nitrification of soils and lakes, and eutrophication of rivers and estuaries. An expanded chapter explores atmospheric chemistry and changing climate, with the most up-to-date statistics on CO<sub>2</sub>, the carbon cycle, other greenhouse gases, and the ozone hole. Only requiring a fundamental understanding in elementary chemistry, yet taking into account extensive and current data, this text is ideal for students in environmental geochemistry, environmental geology, global change, biogeochemistry, water pollution, geochemical cycles, chemical oceanography, and geohydrology, and serves as a valuable reference for researchers working on global geochemical and environmental issues. Revised edition takes a close look at global fluxes involving the atmosphere, land, lakes, rivers, biota, and oceans, and the human effects on these fluxes. Detailed discussion of basic concepts including meteorology, surficial geology (weathering, erosion, and sedimentation), biogeochemistry, limnology, and oceanography. An expanded up-to-date chapter on atmospheric chemistry and changing climate, including CO<sub>2</sub>, other greenhouse gases, and ozone. Presentation of major advances in the study of chemical weathering. Discussion of current environmental topics. Global coverage of environmental problems involving water.

## Book Information

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"This second edition of a useful book by distinguished authors Elizabeth Berner and Robert Berner surveys the status of the terrestrial environment from the standpoint of cycles of material and energy. . . . Global Environment can also serve as a reliable, detailed introduction to environmental science for master's-level practitioners in the field. Well edited with an admirable consistency of writing style and viewpoint."--Choice  
"This well-written book is easy to read. It goes into just the right amount of detail; with the exception of trace elements! The authors have presented wide-ranging references providing the interested readers with more details for further investigation. The authors have followed a multidisciplinary approach in the whole book which makes it beneficial for students who major in Environmental Earth Sciences, Geology, Geochemistry, Biogeochemistry and the associated fields. Besides, this book is of reference value for researchers and graduate students."--Armaghan Attar, International Journal of Environmental Studies

"This book sets two goals for itself: it reviews the basic cycling of elements in natural waters and the atmosphere, and documents how humans have altered these cycles. Appropriate for undergraduates with little science background, and including chapters that would fit in a first-year graduate class, this new edition of Global Environment provides a solid starting point for understanding geochemistry's role in the modern debates over global climate change."--Jess Adkins, California Institute of Technology  
"This book provides a clear, up-to-date summary of geochemical processes across most areas of low-temperature geochemistry, from the point of view of key geochemical cycles. It is detailed and advanced enough to be useful for researchers while offering in-depth knowledge for advanced students."--Michael Krom, University of Leeds  
"Describing water and element cycles within a global context, this newly edited and improved textbook contains valuable additional detail and information but also remains true to the strengths of its original scope."--James Bishop, University of California, Berkeley and Lawrence Berkeley National Laboratory

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