



Global Environment: Water, Air, and Geochemical Cycles

Elizabeth Kay Berner, Robert A. Berner

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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 CO₂, 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 CO₂, 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

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