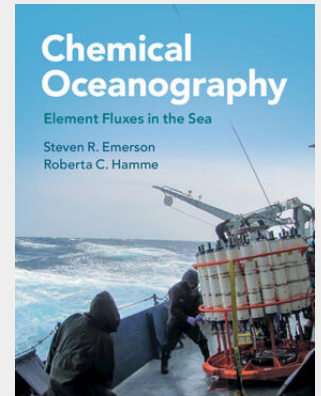


Emerson / Hamme

## Chemical Oceanography

Element Fluxes in the Sea

Chemical Oceanography: Element Fluxes in the Sea focuses on the use of chemical distributions to understand mechanisms of physical, chemical, biological, and geological processes in the ocean. After an introduction describing observed chemical concentrations, chapters focus on using chemical tracers to determine fluxes on a variety of time scales. Long-term chemical cycles are dominated by exchanges between seawater and land, sediments, and underwater volcanoes. Biological and ocean mixing processes dominate internal chemical cycles that respond to changes on hundred- to thousand-year time scales. Stable and radioactive isotopes trace the fluxes of nutrients and carbon to quantify the rates and mechanisms of chemical cycles. Anthropogenic influences - which have grown to be of the same magnitude as some natural cycles - are a specific focus throughout the book. Discussion boxes and quantitative problems help instructors to deepen student learning. Appendices enhance the book's utility as a reference text for students and researchers.



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