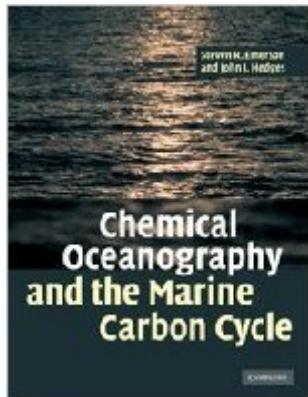


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Chemical Oceanography And The Marine Carbon Cycle



Synopsis

The principles of chemical oceanography provide insight into the processes regulating the marine carbon cycle. The text offers a background in chemical oceanography and a description of how chemical elements in seawater and ocean sediments are used as tracers of physical, biological, chemical and geological processes in the ocean. The first seven chapters present basic topics of thermodynamics, isotope systematics and carbonate chemistry, and explain the influence of life on ocean chemistry and how it has evolved in the recent (glacial-interglacial) past. This is followed by topics essential to understanding the carbon cycle, including organic geochemistry, air-sea gas exchange, diffusion and reaction kinetics, the marine and atmosphere carbon cycle and diagenesis in marine sediments. Figures are available to download from www.cambridge.org/9780521833134. Ideal as a textbook for upper-level undergraduates and graduates in oceanography, environmental chemistry, geochemistry and earth science and a valuable reference for researchers in oceanography.

Book Information

Hardcover: 470 pages

Publisher: Cambridge University Press; 1 edition (June 8, 2008)

Language: English

ISBN-10: 0521833132

ISBN-13: 978-0521833134

Product Dimensions: 7.4 x 1 x 9.7 inches

Shipping Weight: 2.6 pounds (View shipping rates and policies)

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Customer Reviews

Really covers all the basic-advanced topics going on in modern chemical oceanography. It can be a tough read at points, but is fairly straight forward overall. I may have failed by chemical oceanography exam, but the book is still nice.

This book covers all the main topics in chemical oceanography. It is clearly written, and I enjoy

reading it. I think that it is the best successor so far of "Tracers in the Sea".

Great

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