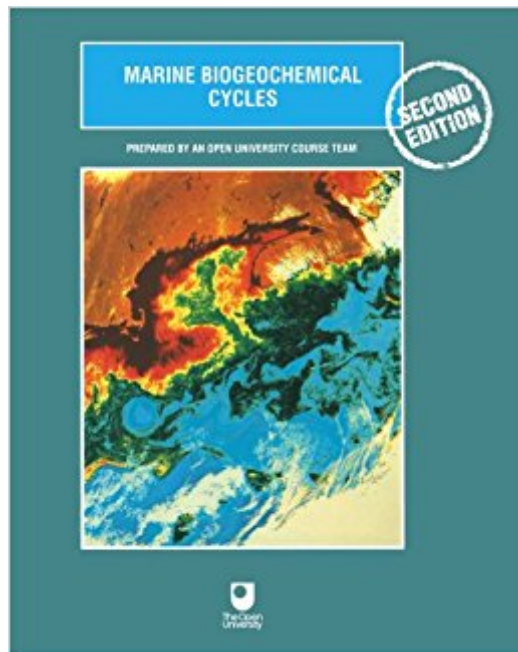




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Marine Biogeochemical Cycles, Second Edition



Synopsis

This Volume belongs to a series on Oceanography. It is designed so that it can be read on its own, or used as a supplement in oceanography courses. After a brief introduction to sea-floor sediments, the book shows how the activities of marine organisms cycle nutrients and other dissolved constituents within the oceans, and influence the rates at which both solid and dissolved material is removed to sediments. It goes on to review the carbonate system and shows how sediments that come from continental areas may be transported to the deep sea, explores what sea-floor sediments have taught us about the history of the oceans, and describes the biological and chemical processes that continue long after sediments have been deposited on the deep sea-floor.

* Covers the basics on the occurrence, distribution, and cycling of chemical elements in the ocean* Features full-color photographs and beautiful illustrations throughout* Reader-friendly layout, writing, and graphics* Pedagogy includes chapter summaries, chapter questions with answers and comments at the end of the book; highlighted key terms; and boxed topics and explanations* Can be used alone, as a supplement, or in combination with other Open University titles in oceanography

Book Information

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Customer Reviews

New edition of the Open University classic, Ocean Chemistry and Deep-Sea Sediments

This Volume belongs to a series on Oceanography. It is designed so that it can be read on its own,

or studied as part of the Open University third-level course, S330 Oceanography. After a brief introduction to sea-floor sediments, we show how the activities of marine organisms cycle nutrients and other dissolved constituents within the oceans, and influence the rates at which both solid and dissolved material is removed to sediments. Chapter 3 reviews the carbonate system and we also show how the sediments that come from continental areas may be transported to the deep sea. We then go on to explore what sea-floor sediments have taught us about the history of the oceans, and we conclude by describing the biological and chemical processes that continue long after sediments have been deposited on the deep sea-floor.

This is the fifth book from the Open University Oceanography series I have read. As usual, an excellent product. If you are unfamiliar with the series, the technical level is similar to "Scientific American". There are questions (in blue text) interspersed in the text, so you can use the book for "deep study" or just a read. All answers are provided at the back with comments. The only disappointment was the small number of flow diagrams. Perhaps the word "Cycles" in the title would be better replaced by "Processes". However, all diagrams are very useful and well-done. If this area interests you, this book (and the others in the series) are the place to start.

I am a graduate student in Oceanography and this book is the best when it comes to simple explanations of complex geochemical topics. It's a great place to start out and build a solid foundation in marine bio-geochemistry.

The only thing that was negative about this book is that it came in a spiral binding and that was not listed in the description.

Our geology and biology student have put this item to use already. It is required reading for a course during the summer.

This Open University series on biogeochemical processes in marine systems or biogeochemistry is another useful book to add to my reference set. I frequently review topics when I need background information for a discussion or to understand concepts. It takes the place of an often missing seminar or course such as biogeochemistry. The familiar format of the chapters makes this book a non-intimidating invitation to understanding marine processes.

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