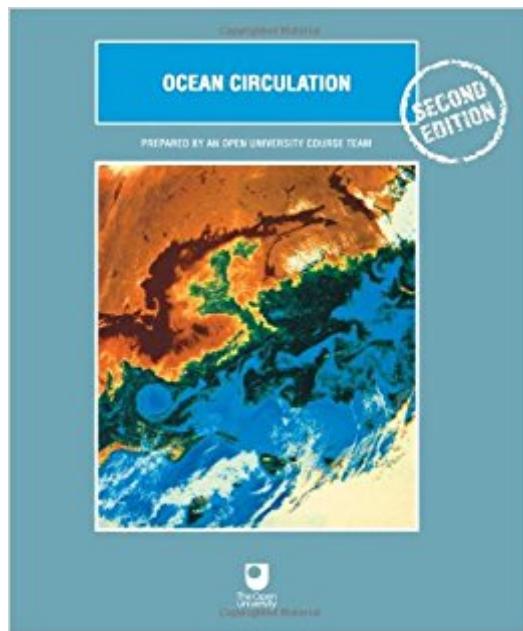


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# Ocean Circulation, 2nd Edition



## Synopsis

This second edition retains the general structure of the first edition, but has been updated in the light of recent oceanographic research, and improved as a teaching text on the basis of feedback from past students and other readers. Notable additions include new sections addressing the topic of numerical modelling, and more discussion of natural oscillations in the ocean-atmosphere system (previously confined to the El Niño phenomenon). In particular, the Chapter on the North Atlantic now includes a discussion of the North Atlantic Oscillation, as well as of the Great Salinity Anomaly. In the final Chapter, treatment of water mass formation has been updated to reflect recent ideas about the processes involved and how they relate to climatic change over different time-scales, from decades to millennia. High quality full colour diagrams. Substantial chapter summaries ideal for revision. Answers, hints and notes for questions at back of the book.

## Book Information

Paperback: 286 pages

Publisher: Butterworth-Heinemann; 2nd Edition edition (August 24, 2001)

Language: English

ISBN-10: 0750652780

ISBN-13: 978-0750652780

Product Dimensions: 0.5 x 8.2 x 10 inches

Shipping Weight: 1.8 pounds

Average Customer Review: 4.2 out of 5 stars 8 customer reviews

Best Sellers Rank: #437,590 in Books (See Top 100 in Books) #92 in Books > Science & Math > Earth Sciences > Geophysics #180 in Books > Science & Math > Nature & Ecology > Oceans & Seas > Oceanography #405 in Books > Science & Math > Earth Sciences > Rivers

## Customer Reviews

...remains an excellent choice for a course that introduces ocean circulation and physical oceanography in an intuitive nonmathematical way. Without much advanced mathematics, the book continues to present the basic dynamics of ocean circulation without getting bogged down in derivations. For those who want a nonmathematical introduction to ocean circulation and physical oceanography, Ocean Circulation continues to be the text of choice - The Bulletin of the American Meteorological Society

Notable additions include new sections addressing the topic of numerical modelling, and more

discussion of natural oscillations in the ocean-atmosphere system (previously confined to the El Niño phenomenon). In particular, the Chapter on the North Atlantic now includes a discussion of the North Atlantic Oscillation, as well as of the Great Salinity Anomaly. In the final Chapter, treatment of water mass formation has been updated to reflect recent ideas about the processes involved and how they relate to climatic change over different time-scales, from decades to millennia.

I borrowed this book in hard-copy form from a friend. The regular book is great. It is written in an easily digestible manner while still covering the material in surprising depth. I found the use of figures and illustrations to summarize concepts particularly well executed. I was incredibly disappointed by the Kindle version I bought for use on my Kindle DX. The text looked like it had been scanned from a copy of a copy made on an old xerox machine. Parts of the letters in the text were missing and the general appearance of the text was blurry. The figures did not line up with the text well, and their quality was not good. I want to make a switch to buying textbooks on the kindle. But if the other book conversions are as poorly executed as this one, then I will stick to buying used hard copies. I would rate the hard copy as a 4 or 5 star book, but I have to give the kindle version a 2 for the lackluster conversion.

#### VERY PLEASED

I really enjoyed this textbook. I used it for teaching an introductory oceanography class to non-majors, and they generally found it helpful. A good choice for anyone looking to get a feeling for the processes that move oceans, both wind-driven and thermohaline. My only objection is that it's very North Atlantic-centric. This is a true of oceanography in general of course, and the authors are from Europe. However, for most of my students on the west coast of the US, the Gulf Stream took some explaining.

Great condition, interesting (for being a textbook) and to the point. Chapters are a bit long but its college. I asked for it.

When I first got the text book, it had a different cover so I compared it with the professors and it was the same thing, so no worries.

This book provides a very accessible introduction to a topic that is often confusing to newcomers. It introduces the concepts and equations of oceanography in a step-by-step manner, with self-quizzes and problems to assist the reader in grasping the concepts. The book is good for people exploring an education in oceanography, or for people who are not oceanographers but need to understand the concepts for their own research. The book takes you from being a novice to understanding the different issues, terminology, and methods of data presentation typical of the field. A grasp of the material puts you in a position to dive into the oceanographic literature and pull out the information relevant to your own field of study.

What a wonderful text book! Clear, concise: lots of good diagrams, very interesting satellite photos, excellent chapter summaries and really thought provoking practice questions. Starts with the basics (atmospheric dynamics) and gets into a little depth (ocean currents, no pun intended). This book is the perfect introduction to oceanography. But it's a tiny bit dated, published in 1989; not clear if it's been updated in its 1995 printing. We've learned a lot more about the oceans since then, especially Japanese research on The Pipeline: two thousand years to complete a single circuit. Our planet, while probably not unique, is a truly marvellously complex system. This book shows how the anthropic principle is operating, and the unlikelihood of finding another planet that would suit us as well, which is a strong argument in favor of terra forming. This book is the second in a set of three on physical oceanography. Really worth the time and effort (and money) to read the set.

The Open University series of books on Oceanography is excellent. I would recommend them for anyone wanting a background on the subject, all the way from lay readers to 1st year grad students. As an oceanographer, I still use mine from time to time to refresh my memory! There are intermediate texts, such as Intro to Dynamical Oceanography, but you really can't beat the illustrations and simple explanatory problems of this text for someone's first introduction to the material.

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