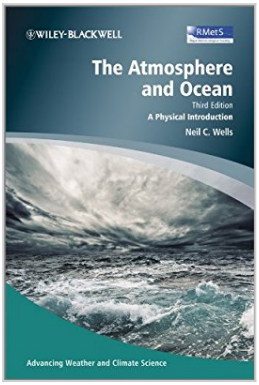

The Atmosphere and Ocean: A Physical Introduction (Advancing Weather and Climate Science)

By Neil C. Wells

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The Atmosphere and Ocean is a fully revised and updated student friendly physical introduction to the atmosphere and ocean. Now in its **Third Edition**, the book continues to provide students with an accessible description of the atmosphere and ocean with emphasis on their physical properties and inter-dependence.

Clearly structured throughout, the book demonstrates that the atmosphere and ocean are both subject to the influence of the earth's rotation and therefore they have a common dynamical basis. The author clearly demonstrates the fundamental differences between the two environments and provides the reader with a much better understanding of the atmosphere and the ocean and an appreciation of their closest interactive relationship. There have been many developments in the field over the past ten years and this latest edition of a highly successful textbook brings together new material on the ocean-atmosphere system and climate, the observed circulation of the atmosphere and ocean and radiation in the atmosphere and ocean.

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- Sales Rank: #3326595 in eBooks
- Published on: 2011-12-08
- Released on: 2011-12-08
- Format: Kindle eBook

Editorial Review

Review

“This book is commendable for attempting such an approach to educate a new generation of scientists armed with a unifying view of the ocean and atmosphere. It is a unique book for those who seek knowledge of not only ocean
or atmosphere but also their commonality, distinction, and interaction.” (*Bulletin of the American Meteorological Society*, 1 November 2012)

"I highly recommend the comprehensive and readily understandable book The Atmosphere and Ocean: A Physical Introduction, 3rd Edition by Neil C. Wells, to any advanced undergraduate students in meteorology, climatology, oceanography, and earth sciences. The book is valuable as well as to any business leaders and public policy makers seeking an approachable book on the topic of the interdependency between the ocean and atmosphere. This book is an excellent and accessible textbook on the topic and should be given priority for anyone interested in learning and understanding the principles of the interrelationship between the planet's atmosphere and its ocean." (Blog Business World, 26 February 2012)

From the Back Cover
The Atmosphere and Ocean, is a fully revised and updated student friendly physical introduction to the atmosphere and ocean. Now in its *Third Edition*, the book continues to provide students with an accessible description of the atmosphere and ocean with emphasis on their physical properties and inter-dependence. Clearly structured throughout, the book demonstrates that the atmosphere and ocean are both subject to the influence of the earth's rotation and therefore they have a common dynamical basis. The author clearly demonstrates the fundamental differences between the two environments and provides the reader with a much better understanding of the atmosphere and the ocean and an appreciation of their closest interactive relationship. There have been many developments in the field over the past ten years and this latest edition of a highly successful textbook brings together new material on the ocean-atmosphere system and climate, the observed circulation of the atmosphere and ocean and radiation in the atmosphere and ocean.

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About the Author
Dr Neil Wells is a lecturer in the Oceanography department at Southampton University in ocean modeling, climate and sea air interaction. Research in, large scale ocean modelling with interests in heat fluxes and heat

content change. (ii) Application of ARGO data sets to determine ocean heat content change. (iii) Links of above with air-sea interaction from seasonal to decadal change. (iv) Storm surges and tidal interaction in coastal seas and relationship to climate change.

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