

Paul R. Pinet, PhD

ISBN-13: 978-1-284-16469-5

**Paperback with Navigate 2  
Advantage Access**

684 pages | © 2021

**PUBLISHING  
OCTOBER 2019!**

# Invitation to Oceanography

## EIGHTH EDITION

**Invitation to Oceanography, Eighth Edition** introduces students to the key concepts from geology, chemistry, physics, and biology as it relates to ocean environments and processes. This comprehensive text helps students learn how scientists interpret data, taking raw knowledge and transforming it into real understanding. As concepts are explained and described with words and numbers, students can apply their learning using questions at the end of each chapter, including the *Review of Basic Concepts*, *Critical-Thinking Essays*, and *Discovering with Numbers*.

A unique aspect of this edition is the introduction of Complexity Theory. This recent approach in science takes into consideration the cross-scale complexity of Earth's ocean systems, notably the applications of panarchy and stability landscapes to unpack cross-scale (spatial as well as temporal) processes and expected outcomes in the future state of ocean systems. Complexity strategies provide students with tools to understand how people need to adapt to change, as well as to uncover feedback loops, self-organization, and emergence. An understanding of Complexity Theory promotes growth in adaptability, flexibility, and change.

### **INVITATION TO OCEANOGRAPHY, EIGHTH EDITION:**

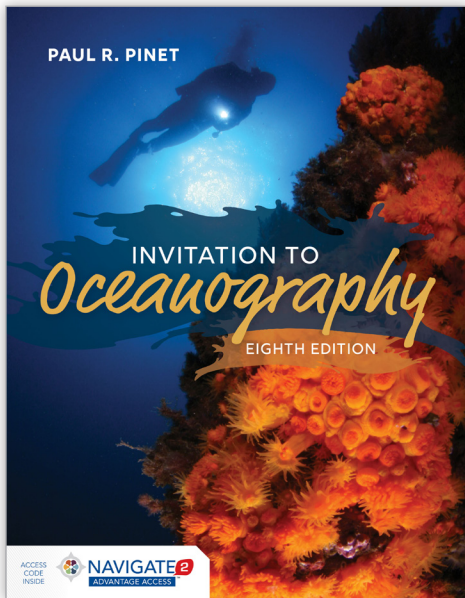
- Covers the history of exploration and scientific discoveries of ocean processes
- Examines the origin of ocean basins, the nature of its water, the motions of its water, and the general ecology of its sea flora and fauna
- Surveys the dynamic shoreline
- Investigates coastal habitats such as estuaries, salt marshes, lagoons, and coral reefs
- Explores the biology of the open ocean and the deep sea
- Considers the ocean's resources, the human presence in the ocean, and global climate change and the ocean
- Includes case studies on the erosion of barrier islands, the pollution of estuaries, the collapse of fisheries, the bleaching of coral reefs, rising sea levels, and climate change

Learn More and

Request Review Copy at: [go.jblearning.com/Oceanography8e](http://go.jblearning.com/Oceanography8e)



Contact Us: Jones & Bartlett Learning | 5 Wall Street | Burlington, MA | 01803  
For faster service, place your order online: [www.jblearning.com](http://www.jblearning.com) | phone: 1-800-832-0034 | fax: 978-443-8000



Paul R. Pinet, PhD

ISBN-13: 978-1-284-16469-5

**Paperback with Navigate 2  
Advantage Access**

684 pages | © 2021

**PUBLISHING  
OCTOBER 2019!**

# Invitation to Oceanography

EIGHTH EDITION

## TABLE OF CONTENTS

- 1 The Growth of Oceanography
- 2 The Planet Oceanus
- 3 The Origin of Ocean Basins
- 4 Marine Sedimentation
- 5 The Properties of Seawater
- 6 Wind and Ocean Circulation
- 7 Waves in the Ocean
- 8 Tides
- 9 Marine Ecology
- 10 Biological Productivity in the Ocean
- 11 The Dynamic Shoreline
- 12 Coastal Habitats
- 13 Ocean Habitats and Their Biota
- 14 The Ocean's Resources
- 15 The Human Presence in the Ocean
- 16 Global Climate Change and the Oceans

Learn More and  
Request Review Copy at: [go.jblearning.com/Oceanography8e](https://go.jblearning.com/Oceanography8e)



Contact Us: Jones & Bartlett Learning | 5 Wall Street | Burlington, MA | 01803  
For faster service, place your order online: [www.jblearning.com](https://www.jblearning.com) | phone: 1-800-832-0034 | fax: 978-443-8000