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The opening chapters introduce relevant relevant ecological, geological, physical and general biological concepts. Then a series of chapters are devoted to the different groups of marine organisms - microbes, plankton, algae and plants, invertebrates, fish, reptiles and mammals.

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Marine biology is the study of the sea's diverse inhabitants and their relationships to each other and their environment. 4. The history of marine biology is one of changing perspectives that have shaped the modern science and its applications. 5. Marine laboratories play an important role in education, conservation, and biological research. 6.

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About this book This established textbook continues to provide a comprehensive and stimulating introduction to marine ecological concepts and processes. Based on a wealth of international teaching expertise, An Introduction to Marine Ecology is written to be the basis for an entire undergraduate course in marine biology or ecology.

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This book is an excellent introduction to the basics of marine biology. It condenses a large volume of information in a few hundred pages without losing any important details and clarity. The language used is simple enough and concise. Illustrations support the more vital topics.

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Oceanography and Marine Biology preserves the basic elements of the physical, chemical, and geological aspects of the marine sciences, and merges those fundamentals into a broader framework of marine biology and ecology. I have found that this approach works: my class of 350 students fills every semester it is offered, with students on waiting lists to get in.

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INTRODUCTION TO MARINE BIOLOGY sparks curiosity about the marine world and provides an understanding of the process of science. Taking an ecological approach and intended for non-science majors, the text provides succinct coverage of the content while the photos and art clearly illustrate key concepts. Studying is made easy with phonetic pronunciations, a running glossary of key terms, end-of-chapter questions, and suggestions for further reading at the end of each chapter. The open look and feel of INTRODUCTION TO MARINE BIOLOGY and the enhanced art program convey the beauty and awe of life in the ocean. Twenty spectacular photos open the chapters, piquing the motivation and attention of students, and over 60 photos and pieces of art are new or redesigned. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

INTRODUCTION TO MARINE BIOLOGY third edition distinguishes itself at the introductory text level by offering comprehensive treatment and thorough integration of Ecology in the study of marine biology. Chapter two, Fundamentals of Ecology, presents human impact on the marine environment and this theme is integrated throughout the text allowing for dynamic class discussions of marine life and environmental change. Written expressly for non-science students, INTRODUCTION TO MARINE BIOLOGY third edition is crafted to spark curiosity about the marine world as well as provide an understanding of the process of science which is presented in Chapter one and revisited in unique boxed readings through out the text. Additionally, the pedagogy was developed expressly for these students to help draw them into and better understand the content. The new, open look and feel of INTRODUCTION TO MARINE BIOLOGY third edition and the enhanced art program convey the beauty and awe of life in the ocean. Twenty spectacular photos now open each chapter, piquing the motivation and attention of students and over 150 photos and pieces of art are new or redesigned. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The oceans are our planet's most distinctive and imposing natural habitat. They cover 71 percent of its surface; support a remarkably diverse and exquisitely adapted array of life forms, from microscopic viruses, bacteria, and plankton to the largest existing animals; and possess many of Earth's most significant, intriguing, and inaccessible ecosystems. In an era in which humans are significantly altering the global environment, the oceans are undergoing rapid and profound changes. The study of marine biology is thus taking on added importance and urgency as people struggle to understand and manage these changes to protect our marine ecosystems. Healthy oceans produce half of the oxygen we breathe; stabilize our climate; create ecosystems that protect our coasts from storms; provide us with abundant food; and host diverse organisms that provide us with natural products for medicine and biotechnology. In this Very Short Introduction, marine biologist Philip Mladenov provides an accessible and up-to-date overview of marine biology, offering a tour of marine life and marine processes that ranges from the unimaginably abundant microscopic organisms that drive the oceans' food web to the apex predators that we exploit for food; from the luxurious kelp beds of the coastal ocean to deep-ocean hydrothermal vents where life exists without the energy of the sun. Throughout the book he considers the human impacts on marine life including overfishing, plastic and nutrient pollution, the spread of exotic species, and ocean warming and acidification. He discusses the threats these pose to our welfare, and the actions required to put us on a path to a more sustainable relationship with our oceans so that they can be restored and protected for future generations. Mladenov concludes with a new chapter offering an inspiring vision for the future of our oceans in 2050 that can be realised if we are wise enough to accelerate actions already underway and be bold with implementing new approaches. The next decade will decide the state of the oceans that we leave behind for future generations. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Oceanography and Marine Biology preserves the basic elements of the physical, chemical, and geological aspects of the marine sciences, and merges those fundamentals into a broader framework of marine biology and ecology. I have found that this approach works: my class of 350 students fills every semester it is offered, with students on waiting lists to get in. But existing textbooks on oceanography or marine biology address the companion field only cursorily: very few pages in oceanography texts are devoted to marine biology, and vice versa. This new book overcomes that imbalance, bringing these disparate marine science text formats closer together, giving them more equal weight, and introducing more effectively the physical sciences by showing students with everyday examples how such concepts form the foundation upon which to build a better understanding of the marine environment in a changing world.

This established textbook continues to provide a comprehensive and stimulating introduction to marine ecological concepts and processes. Based on a wealth of international teaching expertise, An Introduction to Marine Ecology is written to be the basis for an entire undergraduate course in marine biology or ecology. It covers the trophic, environmental and competitive interactions of marine organisms, and the effects of these on the productivity, dynamics and structure of marine systems. The strength of the book lies in its discussion of core topics which remains at the heart of the majority of courses in the subject, despite an increasing emphasis on more applied aspects. The authors maintain the tradition of clarity and conciseness set by previous editions, and the text is extensively illustrated with colour plates, photographs and diagrams. Examples are drawn from all over the world. In this edition, the scientific content of the text has been fully revised and updated. An emphasis has been placed on human impacts, and completely new chapters have been added on fisheries, marine ecosystems, and human interference and conservation. Completely revised and updated with a twofold increase in the number of illustrations. Adopts a more applied approach in keeping with current teaching. New chapters on fisheries, the marine ecosystem, conservation and pollution. Based on a proven and successful course structure.

The third edition of this bestselling text has been rigorously updated to reflect major new discoveries and concepts since 2011, especially progress due to extensive application of high-throughput sequencing, single cell genomics and analysis of large datasets. Significant advances in understanding the diversity and evolution of bacteria, archaea, fungi, protists, and viruses are discussed and their importance in marine processes is explored in detail. Now in full colour throughout, all chapters have been significantly expanded, with many new diagrams, illustrations and boxes to aid students' interest and understanding. Novel pedagogy is designed to encourage students to explore current high-profile research topics. Examples include the impacts of rising CO2 levels on microbial community structure and ocean processes, interactions of microbes with plastic pollution, symbiotic interactions, and emerging diseases of marine life. This is the only textbook addressing such a broad range of topics in the specific area of marine microbiology, now a core topic within broader Marine Science degrees. A Companion Website provides additional online resources for instructors and students, including a summary of key concepts and terminology for each chapter, links to further resources, and flashcards to aid self-assessment.

It is now nine years since the first edition appeared and much has changed in marine science during that time. For example, satellites are now routinely used in remote sensing of the ocean surface and hydrothermal vents at sea noor spreading centres have been extensively researched. The second edition has been considerably expanded and reorganised, and many new figures and tables have been included. Every chapter has been carefully updated and many have been rewritten. A new chapter on man's use of the oceans has been included to cover satellites and position fixing, renewable energy sources in the sea, seabed minerals, oil and gas, pollution and maritime law. In this edition we have also referred to a number of original references and review articles so that readers can find their way into the literature more easily. As in the first edition, PSM has been mainly responsible for the text and HC for the illustrations, although each has responded to advice from the other and also from many colleagues. In this context readers should note that the illustrations form an integral and major part of the book. The text will almost certainly be too concise for many readers if they do not study the illustrations carefully at the same time. The book has been written as an introductory text for students, although it can serve anyone who is beginning a study of the sea.

Appeal to every student's natural curiosity about the oceans! - Complete content review and answer key that links every chapter in the student book with its corresponding lab - Tips on preparing and setting up each of the labs - A list of aquariums, marine-science centers, web sites, and other helpful teaching resources - Tried-and-true methods to ensure that students get the most from every lab and project See the companion Marine Biology lab manual and Marine Biology student book

The new edition of this widely respected text providescomprehensive and up-to-date coverage of the effects ofbiological/physical interactions in the oceans from themicroscopic to the global scale, considers the influence of physical forcing on biologicalprocesses in a wide range of marine habitats including coaestalestuaries, shelf-break fronts, major ocean gyres, coral reefs,coastal upwelling areas, and the equatorial upwelling system investigates recent significant developments in this rapidlyadvancing field includes new research suggesting that long-term variability inthe global atmospheric circulation affects the circulation of oceanbasins, which in turn brings about major changes in fish stocks.This discovery opens up the exciting possibility of being able topredict major changes in global fish stocks written in an accessible, lucid style, this textbook isessential reading for upper-level undergraduates and graduatesstudents studying marine ecology and biological oceanography

The world's oceans account for roughly 71 percent of the planet's surface and 99 percent of its livable volume. Any study of this huge habitat requires a solid foundation in the principles that underlie marine biology and physical and chemical oceanography, yet until now undergraduate textbooks have largely presented compilations of facts rather than explanations of principles. How the Ocean Works fills this gap, providing a concise and accessible college-level introduction to marine science that is also ideal for general readers. How are winds and currents driven? What is the dilemma of the two-layered ocean? Mark Denny explains key concepts like these in rich and fascinating detail. He explores early scientific knowledge of oceans, photosynthesis, trophic interactions and energy flow, and the impacts of human activities on marine and atmospheric systems. Focusing each chapter on a major topic and carefully explaining the principles and theory involved, Denny gives readers the conceptual building blocks needed to develop a coherent picture of the living ocean. How the Ocean Works is an indispensable resource that teaches readers how to think about the ocean--its biology, mechanics, and conservation. Provides a concise, up-to-date introduction to marine science Develops the conceptual basis needed to understand how the ocean works Explains fundamental principles and theory Includes color illustrations and informative diagrams Serves as a college textbook and a reference for general readers Some images inside the book are unavailable due to digital copyright restrictions.