

PHYSICAL SCIENCES

ACADEMIC CATALOG 2017-2018



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Earth's Evolving Systems

The History of Planet Earth

SECOND EDITION

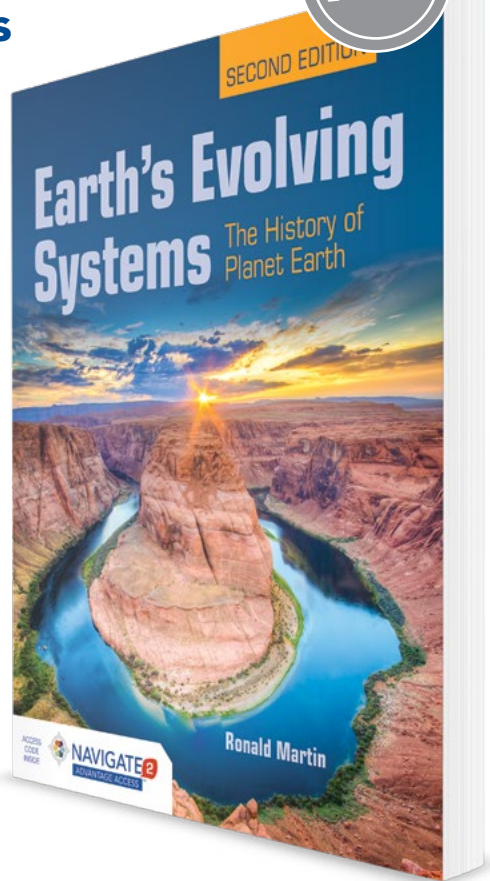
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Ronald E. Martin, University of Delaware

Earth's Evolving Systems: The History of Planet Earth, Second Edition explores the complex processes and interactions that have shaped our planet. Employing a systems perspective, this introductory text covers topics such as the lithosphere, hydrosphere, atmosphere, and biosphere, and discusses how these systems, plate tectonics, and life have interacted with each other and evolved through geologic time. This approach to Earth's history integrates the study of modern Earth systems with past ones piquing students' interest in the process. No other text bridges the gap between traditional historical geology and the behavior of Earth systems, and does so with higher quality art and illustrations.

KEY FEATURES

- Introduces the concepts and processes of Earth systems and their basic interactions at an introductory level in the first six chapters
- Visually stunning design with over 300 NEW and REVISED images and illustrations that unlock complex topics and geological processes
- A major theme is the method of multiple working hypotheses and debates, offering a broad perspective to the covered topics.
- Each chapter begins with a list of *Major Concepts and Questions Addressed in This Chapter*. The new interior text design uses icons to indicate where each of these Major Concepts are addressed within the chapter to help students study.
- Each chapter ends with basic *Review Questions* and more challenging *Food for Thought* questions, which go beyond the basic information of the chapter.



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Dynamic Earth

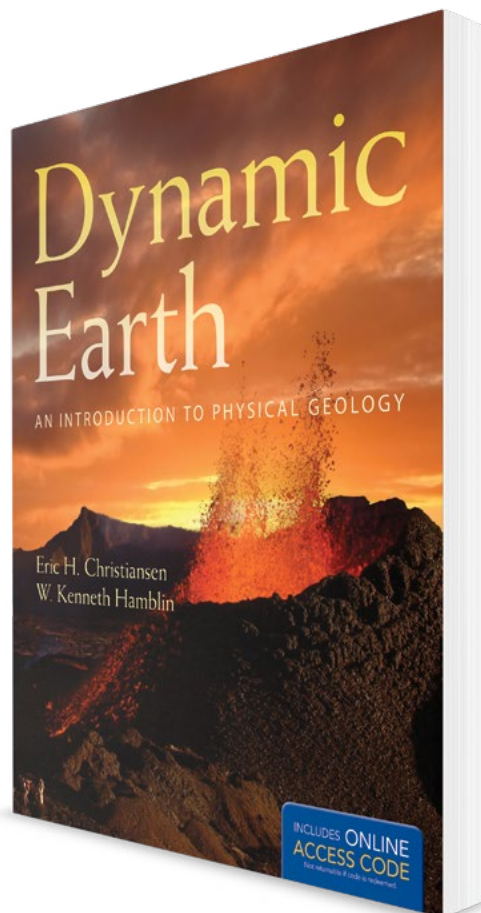
An Introduction to Physical Geology

Eric H. Christiansen, Brigham Young University
W. Kenneth Hamblin, (late of) Brigham Young University

Designed for introductory courses in Physical or Introductory Geology, ***Dynamic Earth*** clearly presents Earth's dynamic geologic systems with their many interdependent and interconnected components. It provides comprehensive coverage of the two major energy systems of Earth: the plate tectonic system and the hydrologic cycle. Featuring current content and a striking illustration package, the text teaches students to look at the world as geologists.

KEY FEATURES

- Contains up-to-date information on major geologic events, such as volcanic eruptions, earthquakes, landslides, floods, and more
- Includes the most contemporary climatic data
- Contains numerous drawings and photographs to illustrate the geologic systems. The authors took many of the photos with a geologic lesson in mind.
- Utilizes digital topographic maps to help readers see the detail of the sea floor and continental topography. These maps serve as a visual study aid for students.
- Features short essays titled *GeoLogic* and *State of the Art*. The *GeoLogic* essays illustrate the scientific method and show the logic behind using simple observations to come to important conclusions about the way Earth works. The *State of the Art* series highlights new techniques used to understand Earth's systems—satellites, analytical instruments, GPS receivers, seismic arrays, etc.

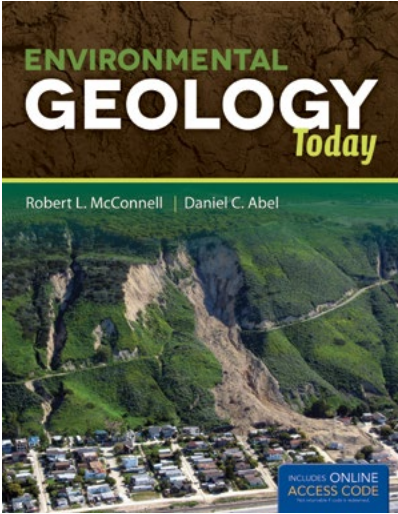


Navigate Companion Website

Every new print copy includes access to the Navigate Companion Website, where students will find Quantitative Problems to allow them to do computations to solve a problem or describe a process, Critical Thinking Web Exercises to help them develop analytical and critical thinking skills, and Practice Quizzes for reviewing key concepts.

ISBN: 978-1-4496-5984-4 • Paperback with Access Code • 838 pages • © 2015

<http://go.jblearning.com/DynamicEarth>



Environmental Geology Today

Robert L. McConnell, Professor Emeritus,
University of Mary Washington

Daniel C. Abel, Coastal Carolina University

Designed for the introductory course for majors and non-majors alike, *Environmental Geology Today* presents the core geological principles and explores the effects of humanity on the physical environment. Contemporary case studies throughout encourage students to use their critical thinking skills to dissect data and the subject matter as part of their overall analysis. Using simple math, graphing, and critical thinking, students are challenged to analyze aspects of the data, honing their basic math and analytical skills.

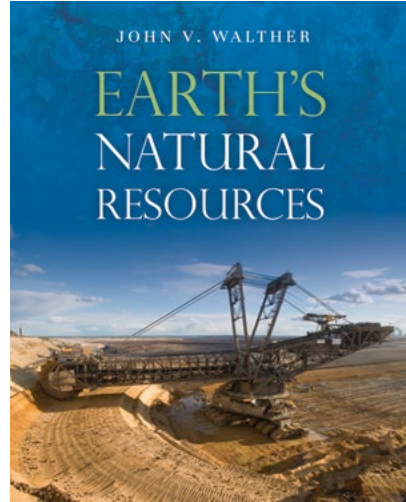
KEY FEATURES

- Math is introduced in a non-threatening, step-by-step manner, allowing students to identify their own errors early in the process, thereby gradually building confidence in their mathematical abilities
- Features global, national, and regional issues, but also shows students how to retrieve and use information to address critical local issues like population growth and development, air and water pollution, land use, and waste disposal

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<http://go.jblearning.com/EnvironmentalGeology>



Earth's Natural Resources

John V. Walther, Southern Methodist University

Earth's Natural Resources provides a thorough overview of the subject and details how natural resources relate to individuals and our society. It discusses how the Earth's natural resources form and change over time, how they are extracted for human use, and how we can continue to sustainably use them with our ever-growing global population. In each section, the author discusses the science of the element under consideration, as well as any environmental and sustainability concerns that have arisen as humans have harvested the resources with increasing effectiveness.

KEY FEATURES

- Provides a thorough overview of our natural resources and how society affects these resources
- Includes discussion of where natural resources occur, how they are concentrated, how they are extracted, and the extent of their supply and usage
- Contains content on the latest alternative energy resources
- Offers end-of-chapter material including, chapter summaries, key term listings, problems, and references

ISBN: 978-1-4496-3234-2

Paperback • 434 pages • © 2014

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Environmental Science

TENTH EDITION

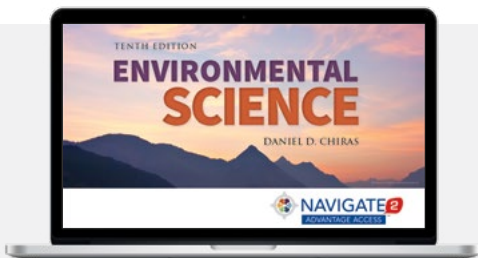
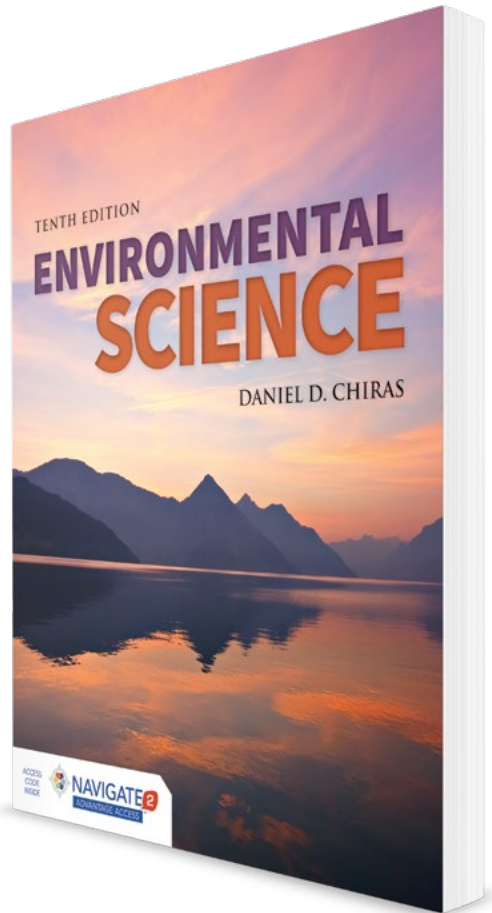
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Daniel D. Chiras, Director, The Evergreen Institute

This acclaimed book is the only text that explores the underlying causes of environmental problems and root-level solutions and presents both sides of many critical issues. It discusses the challenges of the growing human population and resource depletion and solutions that address these issues in a sustainable manner. The book also discusses nonrenewable and renewable energy options and their pros and cons, and includes updated coverage of environmental economics, ecology, and the application of science and technology to environmental concerns.

KEY FEATURES

- Emphasizes sustainable solutions to local, regional, national, and global environmental issues with the goal of creating lasting solutions to all environmental problems
- Includes expanded discussions of contemporary environmental issues, including global climate change, solar and wind energy, world energy demand and peak oil, acid deposition, and more
- Provides in-depth coverage of all topics to allow students to analyze environmental issues objectively and think critically about solutions



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Environmental Science

Systems and Solutions

SIXTH EDITION

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Michael L. McKinney, University of Tennessee

Robert M. Schoch, Boston University

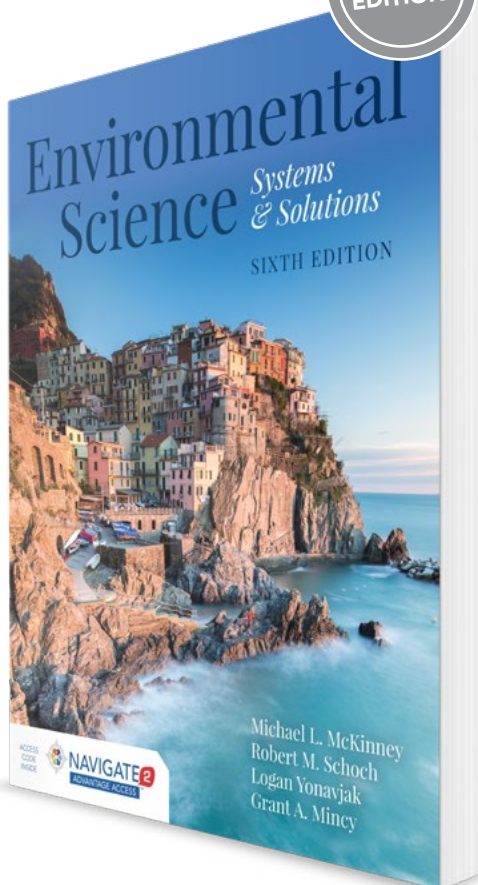
Logan Yonavjak

Grant Mincy, Roane State Community College

In order to fully comprehend the environmental issues being discussed in news and media—whether it be climate change, air and water pollution, pesticides, nuclear power, or renewable and nonrenewable energy—it is imperative to understand the basic principles necessary to address these multi-faceted and complex environmental concerns. Combining strong scientific grounding with a focus on contemporary case studies, calculations, and references, *Environmental Science: Systems and Solutions* teaches and engages. Featuring updated data and statistics with additional tables throughout, the *Sixth Edition* lays the groundwork for a fair and apolitical foundational understanding of environmental science.

KEY FEATURES

- Employs an Earth systems perspective with emphasis on geological processes and hazards with strong references and data to convey the fundamentals of environmental science
- Presents evidence-based contemporary data and statistics to help students understand important information
- Features updated and additional case studies,



including the Fukushima Daiichi nuclear disaster, the Keystone Pipeline system, and more

- Visually stunning design with new and revised figures and photographs unlock complex topics and geological processes

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Navigate Scenario: GameScape for Environmental Science

This unique online learning simulation is an ideal, engaging, and interactive complement to your Introductory Environmental Science course. Featuring videos, characters, and storylines, it puts the student in control and challenges them to think critically about outcomes and consequences before making decisions.

View a brief video at <http://go.jblearning.com/GameScapeEnvironmentalScience>.

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Principles of Environmental Chemistry

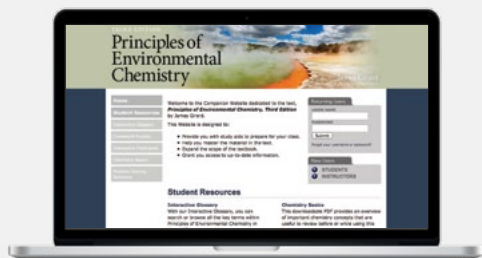
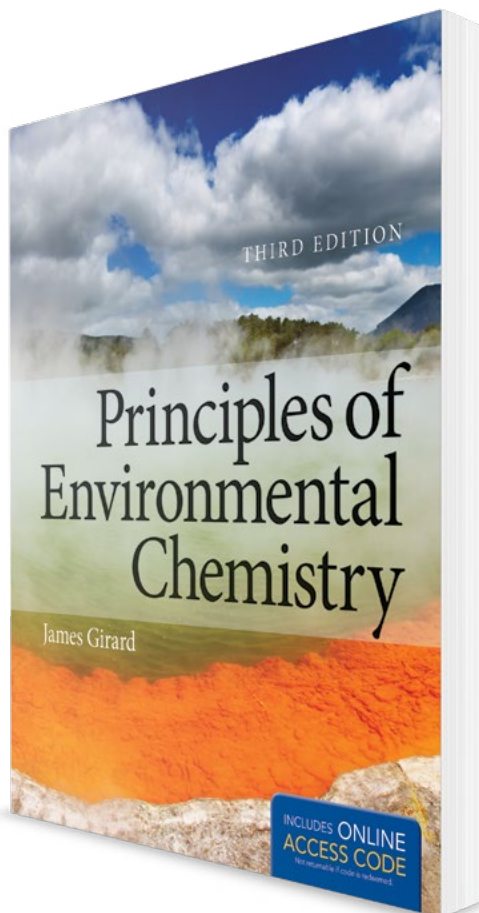
THIRD EDITION

James E. Girard, American University

Appropriate for students with a general chemistry background, *Principles of Environmental Chemistry, Third Edition* helps students understand environmental issues and the underlying chemistry. It emphasizes that all parts of the environment are made up of chemicals, and that the natural processes continuously occurring in the environment all involve chemical reactions. With this concept of interdependence, students begin to see that without some understanding of chemistry, it is impossible to fully understand environmental issues such as ozone depletion, global warming, air and water pollution, and the hazards of radioactivity.

KEY FEATURES

- Includes a new chapter on Green Chemistry
- Reintroduces the chapter discussing soil and agriculture
- Includes additional chemical equations throughout
- A new key term glossary is now included at the end of the text
- A downloadable student study guide and problem solving solutions manual is available
- New feature boxes assess students' understanding of chapter material with analytical questions and problems



Navigate Companion Website

Developed exclusively to accompany *Principles of Environmental Chemistry, Third Edition* the student companion website offers a variety of resources designed to enhance the study of the underlying chemical processes that are operating in the environment and provides the opportunity to explore topics in more detail.

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Invitation to Oceanography

SEVENTH EDITION

INCLUDES NAVIGATE 2 ADVANTAGE ACCESS

Paul R. Pinet, Colgate University

Spanning the four major divisions of ocean science—geology, chemistry, physics, and biology—best-selling *Invitation to Oceanography, Seventh Edition* is an ideal text for majors and non-majors alike. The *Seventh Edition* has been updated with sophisticated and cutting-edge graphics and photos throughout, and includes trending content on climate change, Superstorm/Hurricane Sandy, and the tsunami in Japan. Updated and expanded feature boxes reinforce key concepts and support knowledge building, and additional information on current research and the clinical and practical applications of oceanography contextualize scientific ideas within a real-world framework.

KEY FEATURES

- New and expanded feature boxes, including the *Science by the Numbers* boxes that teaches the art of ocean science computation, illuminate key concepts, and offer readers additional thought provoking information
- End-of-chapter *Review Questions* and *Critical-Thinking Essays* assess student retention and comprehension of core concepts, while the *Discovering with Numbers* questions challenge students to apply calculations
- Written in a conversational tone that is appealing to non-majors
- Emphasizes current research and real-world applications of key oceanographic concepts

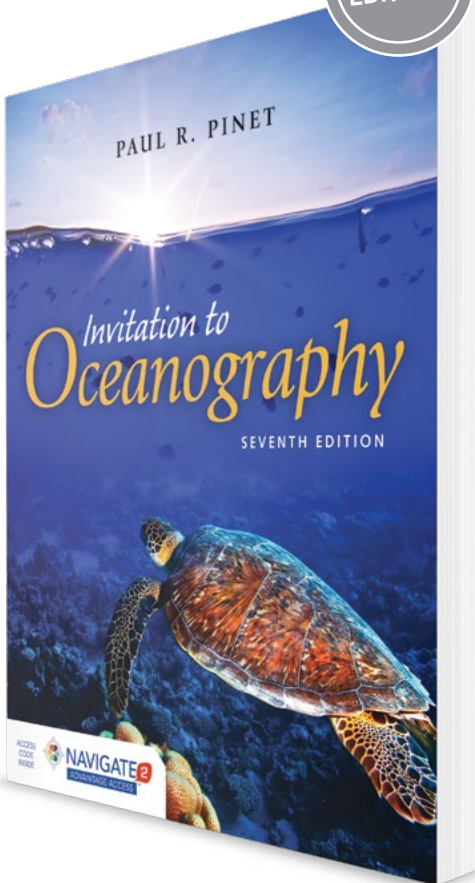
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Essential Invitation to Oceanography

Paul R. Pinet, Colgate University

ISBN: 978-1-4496-8643-7

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An Introduction to Marine Mammal Biology and Conservation

E.C.M. Parsons, George Mason University

ISBN: 978-0-7637-8344-0

Paperback • 350 pages • © 2013

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NEW
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Introduction to the Biology of Marine Life

ELEVENTH EDITION

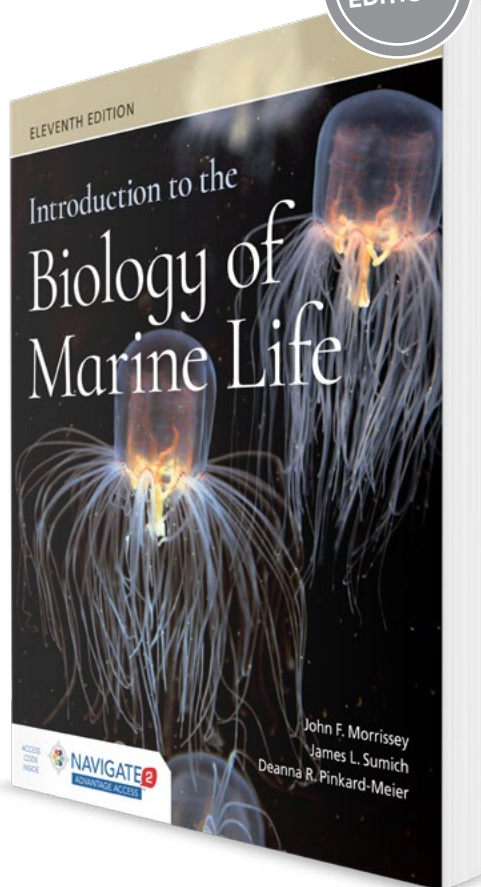
INCLUDES NAVIGATE 2 ADVANTAGE ACCESS

John F. Morrissey, Sweet Briar College**James L. Sumich**, Professor Emeritus, Grossmont College**Deanna R. Pinkard-Meier**, University of San Diego

The eleventh edition of *Introduction to the Biology of Marine Life* inspires students to appreciate marine life and ocean ecosystems. Assuming no prior knowledge of marine biology, this entertaining text covers the essentials to a foundational understanding of marine organisms and their environments. The conversational writing style, latest research, and engaging features are designed to intrigue students, while the new case studies encourage them to apply their knowledge to current and real-life situations.

KEY FEATURES

- Two NEW chapters, *Polar Seas* and *Physical and Chemical Oceanography*
- NEW *Did You Know?* boxes highlight a fascinating aspect of marine life
- *Research in Progress* feature offers the latest statistics and modern examples of the current work and findings of marine biologists
- NEW Case Studies in every chapter highlight various marine organisms and encourage knowledge application
- More than 450 NEW and revised high-quality photos and carefully rendered illustrations help support visual learners, clarify key concepts, and enhance the student reading experience

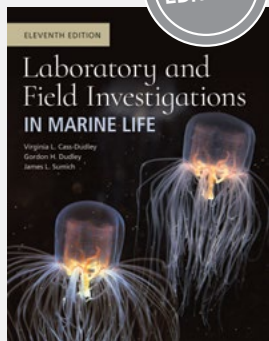


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NEW
EDITION!

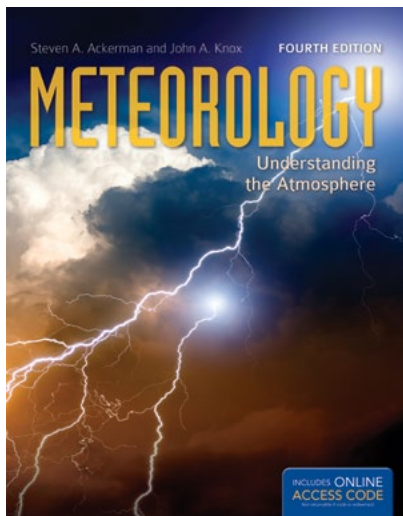
Laboratory and Field Investigations in Marine Life

ELEVENTH EDITION

Virginia L. Cass-Dudley, Grossmont College**Gordon Dudley**, Grossmont College**James L. Sumich**, Professor Emeritus, Grossmont College

Now in full color, this unique marine biology laboratory and field manual engages students in the excitement and challenges of understanding marine organisms and the environments in which they live. Students will examine topics such as the physical and chemical properties of seawater, marine microbes, algae, and a wide variety of invertebrate and vertebrate animals. The new, more convenient spiral binding allows the manual to lay flat on lab tables while students work, and they can easily tear out pages to submit for a grade.

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Meteorology

Understanding the Atmosphere

FOURTH EDITION

Steven A. Ackerman, University of Wisconsin, Madison

John A. Knox, University of Georgia

The updated *Fourth Edition* engages students with real-world examples and a captivating narrative. It includes new content on recent meteorological topics including geomagnetic storms, normal temperatures, extreme rainfall, flooding, global-scale winds, tornado outbreaks and debris, air pollution in China, the hole in the ozone layer, ocean acidification, and many more engaging topics. Contains new sections on Superstorm Sandy and cyclone forecasting, and the tornadoes of 2011.

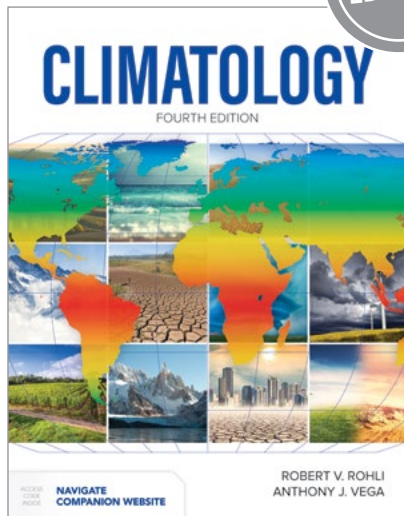
KEY FEATURES

- Mathematical details are provided in an easy-to-understand manner
- Uses conceptual models, visualization of life cycles, and engaging narrative to make weather phenomena come alive
- Each chapter contains extended feature boxes that delve into advanced and unusual topics related to the material
- Instructor-friendly design and organization places the tropical cyclone chapter relatively early in the text so that fall semester courses can cover this subject during hurricane season
- Learning Applets are integrated into the text and appeal to today's visually oriented students in an interactive, game-like virtual environment

ISBN: 978-1-284-03080-8

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Climatology

FOURTH EDITION

Robert V. Rohli, Louisiana State University

Anthony J. Vega, Clarion University

Praised for its detail and accuracy, *Climatology* continues to lead as the most comprehensive presentation of our dynamic climate system. The *Fourth Edition* features a completely revised, full-color art program that enhances clarity and gradation of all maps, climographs, and images to help readers better understand the diversity of climate within varying climate types. The text appeals to all students, as it covers the basics of atmospheric science in the early chapters and provides the breadth and depth of topics to challenge the more experienced reader.

KEY FEATURES

- NEW full-color interior design greatly improves clarity of all maps, climographs, and images to better illustrate important data
- Without the use of calculus, quantitative treatment is included where necessary to provide students with detailed explanation of the processes discussed and needed at this upper level
- Features expanded coverage of Limitations of Model Results, teleconnection patterns and interaction between these patterns, past climate- dendrochronology and palynology, drought, and more
- Every new print copy is packaged with access to the Navigate Companion Website containing study questions and hands-on activities

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Botany

An Introduction to Plant Biology

SIXTH EDITION

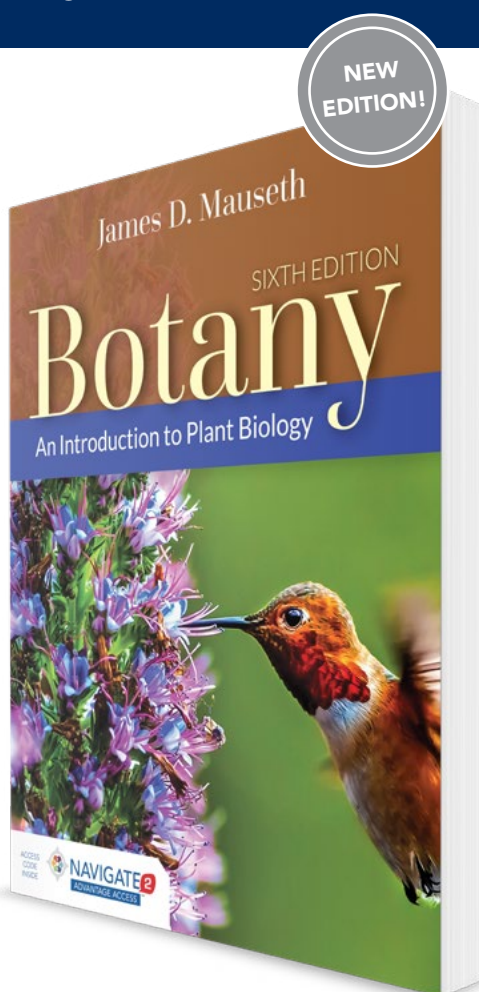
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James D. Mauseth, University of Texas, Austin

Botany: An Introduction to Plant Biology continues to set the standard for the fundamentals of plant science. No botany text better connects structure to function and does so with higher quality art and imagery. Combining strong scientific grounding with an approachable writing style, **Botany** teaches and engages. The essentials to a foundational understanding of plant science are all there, including structure, genetics and evolution, physiology and development, and ecology. Now in a modernized sixth edition, the text continues to lead with the latest material on molecular biology, plant biotechnology, and the most recent coverage of taxonomy and phylogeny of plants to keep students on the forefront of cutting-edge botanical research.

KEY FEATURES

- NEW *Botany in Action* animations educate and entertain!
- Includes two NEW chapters on ethnobotany and community ecology
- Features a NEW chapter to provide foundational information on botany, including climate ecology
- Visually stunning design with over 550 NEW and REVISED figures including NEW photographs and thoroughly revised, detailed illustrations
- NEW *Did You Know?* feature illuminates the direct application of plants to our lives and stimulates curiosity of the fascinating botanical world around us
- NEW *At the Next Level* feature provides opportunities to expand one's understanding of botany
- Classic features *Botany and Beyond* and *Plants and People* have been retained by popular demand, and modernized to suit a new generation of learners



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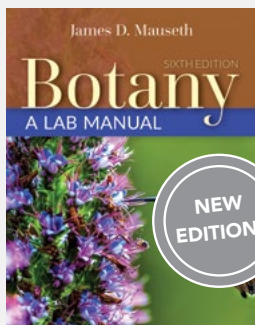
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Botany: A Lab Manual

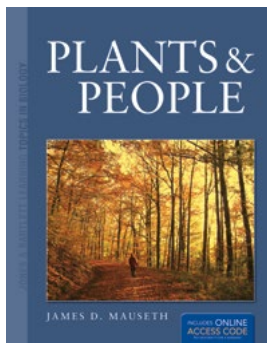
SIXTH EDITION

Amanda Snook, James D. Mauseth, University of Texas, Austin

Botany: A Lab Manual, Sixth Edition is the perfect companion to any botany course. Packed with hands-on activities, it engages students and broadens their understanding of plant biology. Now in full-color and a convenient lay-flat format, it provides detailed examination of plant structure, plant groups, genetics, classification, and more.

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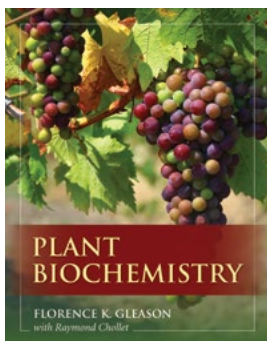
Plants & People

James D. Mauseth, University of Texas, Austin

Plants play a role in the environment, in food, beverage, and drug production, as well as human health. Written for the introductory, nonscience major course, *Plants & People* outlines the practical, economical, and environmental aspects of plants' interactions with humans and the earth. It provides comprehensive coverage of plants in the environment—global warming, deforestation, biogeography—as well as the role plants play in food, fiber, and medicine.

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Plant Biochemistry

Florence K. Gleason, University of Minnesota

Raymond Chollet, University of Nebraska, Lincoln

Plant Biochemistry provides a comprehensive, student-friendly introduction to this fascinating area of study. It opens with a discussion of perhaps the most important biochemical processes on the plant: photosynthesis and carbon fixation in plants. An introduction to carbohydrates, their usage and their storage, is followed by a discussion of primary cell wall structure and synthesis, as well as coverage of the metabolism of inorganic nutrients such as nitrogen and sulfur.

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