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HISTORICAL GEOLOGY

Earth's Evolving Systems

The History of Planet Earth SECOND EDITION

INCLUDES NAVIGATE 2 ADVANTAGE ACCESS

Ronald E. Martin, University of Delaware

Earth's Evolving Systems: The History of Planet Earth, Second Edition is an introductory text designed for popular courses in undergraduate Earth history. Written from a "systems perspective," it provides coverage of the lithosphere, hydrosphere, atmosphere, and biosphere, and discusses how those systems interacted over the course of geologic time. The origins of the planet and life and its evolution are presented, within the context of the major eras, including Proterozoic, Paleozoic, Mesozoic, Paleogene, and Neogene. No other resource captures the dynamism of our planet's fascinating history.

KEY FEATURES

- Uses a first-person writing style to engage students' attention
- NEW animations capture the action of Earth's development
- Stresses the interactions of plate tectonics (lithosphere) and life with other Earth systems as the Earth evolved toward its present state
- Each chapter ends with basic review questions and more challenging questions (*Food for Thought*), which are intended to go beyond the basic information of the chapter and stimulate students to think about what they have learned in a broader context. These questions could be used for classroom discussion or essay questions.
- Includes a list of key terms and *Sources and Further Reading* for students and instructors at the end of each chapter that could also be used as assignments





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Each new print copy includes Navigate 2 Advantage Access that unlocks a comprehensive and interactive eBook with embedded animations that demonstrate key geological developments of the Earth's history, student practice activities and assessments, a full suite of instructor resources, and learning analytics reporting tools.

Option 1: Paperback with Navigate 2 Advantage Access ISBN: 978-1-284-10829-3 • 720 pages • © 2017 http://go.jblearning.com/Martin2e Option 2: 50% Off Option 1! Navigate 2 Advantage Access Only ISBN: 978-1-284-10831-6 • © 2017

PHYSICAL GEOLOGY

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 Only: ISBN: 978-1-4496-5904-2 • © 2015 http://go.jblearning.com/DynamicEarthCWS

Navigate Companion Website

Every new printed 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 AND EARTH'S RESOURCES



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

ISBN: 978-1-4496-8487-7

Paperback with Access Code • 824 pages • © 2015 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 http://go.jblearning.com/Walther

ENVIRONMENTAL SCIENCE

Environmental Science

TENTH EDITION

INCLUDES NAVIGATE 2 ADVANTAGE ACCESS

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 FITTH EDITION

Michael L. McKinney | Robert M. Schoch | Logan Yonavjak



Environmental Science

Systems and Solutions

Michael L. McKinney, University of Tennessee Robert M. Schoch Logan Yonavjak

The updated *Fifth Edition* explains the concepts and teaches the skills needed to understand complex and multifaceted environmental issues. It presents the arguments, rebuttals, evidence, and counterevidence from many sides of the debate. The *Fifth Edition* includes new *Science in Action* boxes, which feature cutting-edge case studies and essays, contributed by subject matter experts that highlight recent and ongoing research within environmental science. With an "Earth as a system" approach, the text continues to emphasize Earth's intricate web of interactions among the biosphere, atmosphere, hydrosphere, and lithosphere, and how we are central components in these four spheres.

KEY FEATURES

- Includes new content on renewable energy, solar panels, and compact fluorescent light bulbs
- Contains the latest information on hydropower and the advantages and disadvantages of hydroelectric energy
- Includes access to the companion website that features robust learning tools, including practice quizzes, virtual flashcards, answers to in-text questions, and links to additional coverage regarding material discussed in the text

ISBN: 978-1-4496-6139-7

Paperback with Access Code • 696 pages • © 2013 http://go.jblearning.com/McKinney5e



Navigate Scenario: GameScape for Environmental Science

A Personalized Learning Journey Where Students LEARN by BEING

Key Features of *Navigate Scenario: GameScape for Environmental Science*:

- Online Learning Simulation immerses students in the roles of key players
- Presents "day in the life" situations students can expect to encounter in their career
- Interactive videos, characters, and storylines engage students in the story and content
- Uses content mapped to Learning Objectives for an introductory environmental science course
- Game-like point system measures performance so students can track their comprehension of the content

Navigate Scenario: GameScape for Environmental Science is an ideal, engaging, and interactive complement to your Introductory Environmental Science course.

Talk to your Account Specialist for bundling *Navigate Scenario: GameScape for Environmental Science* with *Environmental Science, Tenth Edition*

(ISBN: 978-1-284-05705-8) or Environmental Science: Systems and Solutions, Fifth Edition (ISBN 978-1-4496-6139-7).

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

Then contact your Account Specialist to learn more and to schedule a personal live demo.

ENVIRONMENTAL CHEMISTRY

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 Only: ISBN: 978-1-4496-9214-8

http://go.jblearning.com/EnviroChemCWS



IDES ONLINE

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.

ISBN: 978-1-4496-9352-7 • Hardcover with Access Code • 712 pages • © 2014 http://go.jblearning.com/EnviroChem3e

OCEANOGRAPHY

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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Each new print copy includes Navigate 2 Advantage Access that unlocks a comprehensive and interactive eBook with embedded animations that demonstrate key oceanographic processes, student practice activities and assessments, a full suite of instructor resources, and learning analytics reporting tools.

Option 1: Paperback with Navigate 2 Advantage Access ISBN: 978-1-284-05707-2 • 662 pages • © 2016 http://go.jblearning.com/Oceanography7e **Option 2: 50% Off Option 1!** Navigate 2 Advantage Access Only ISBN: 978-1-284-05734-8 • © 2016

OCEANOGRAPHY AND MARINE SCIENCE

ELEVENTH EDITION

NEW EDITION

Introduction to the Biology of Marine Life

ELEVENTH EDITION

INCLUDES NAVIGATE 2 ADVANTAGE ACCESS

John Morrissey, Sweet Briar College James L. Sumich, Grossmont College Deanna R. Pinkard-Meier, Grossmont College

The *Eleventh Edition* continues to provide students with a clear and engaging introduction into the exciting world of marine organisms and the extraordinary environments in which they live. Building on the biological basics of selected groups of marine organisms, the text progresses to discuss the taxonomy, evolution, ecology, behavior, and physiology. Additional topics include the ocean as a habitat, patterns of associations, estuaries, coastal seas, coral reefs, the open sea, the deep sea floor, and harvesting

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Paperback with Navigate 2 Advantage Access ISBN: 978-1-284-09050-5 • 520 pages • © 2017 http://go.jblearning.com/MarineBiology11e

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Essential Invitation to Oceanography

Paul R. Pinet, Colgate University

ISBN-13: 978-1-4496-8643-7 Paperback with Access Code • 486 pages • © 2014 http://go.jblearning.com/PinetEssentials



An Introduction to Marine Mammal Biology and Conservation

E.C.M. Parsons, George Mason University

ISBN-13: 978-0-7637-8344-0 Paperback • 350 pages • © 2013 http://go.jblearning.com/Parsons

ATMOSPHERIC SCIENCES



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 easyto-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

Paperback with Access Code • 576 pages • © 2015 http://go.jblearning.com/Meteorology4e



Climatology THIRD EDITION

Robert V. Rohli, Louisiana State University Anthony J. Vega, Clarion University

The thoroughly updated *Third Edition* provides students with a comprehensive foundation of the climatic system. It includes a discussion on air/sea interactions to assist readers in understanding this critical aspect of the earth/ atmosphere system. Using a regional approach, discussions progress to more advanced concepts, such as microscale processes, climatic water balance, global atmospheric circulation, climatic classification, the spatial variability of climates, and much more.

KEY FEATURES

- Without the use of calculus, quantitative treatment is included where necessary to provide students with detailed explanation of the processes discussed that is needed at this upper-level
- A revised art program offers enhanced clarity and gradation of all maps, climographs, and images
- Provides greater emphasis on current topics, including the "shale revolution," the behavior of the Pacific Decadal Oscillation, the weakening or possible reversal of "global dimming" in the 21st century, the importance of dimethyl sulfides as drivers and/or modulators of global climate change, and the 2012 sunspot maximum

ISBN: 978-1-284-03230-7 Paperback with Access Code • 444 pages • © 2015 http://go.jblearning.com/Climatology3e

PLANT SCIENCE

Botany

An Introduction to Plant Biology SIXTH EDITION

INCLUDES NAVIGATE 2 ADVANTAGE ACCESS

James D. Mauseth, University of Texas, Austin

The stunning Sixth Edition includes 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. New pedagogical features, including chapter opening learning objectives, Did You Know? boxes, At the Next Level boxes, and new and updated end-of-chapter criticalthinking questions, guide students' focus and assesses comprehension. The approachable writing style, quality anatomy coverage, solid scientific grounding, and visual appeal of the new text design and art package make Botany: An Introduction to Plant Biology, Sixth Edition the clear choice for students digging into this exciting science.

KEY FEATURES

- Features a NEW chapter to provide foundational information on botany, including climate ecology, adaptation, genes and genetics, and phylogeny of plants
- Includes two NEW chapters covering upto-date information on ethnobotany and community ecology
- Contains more photographs to aid visual learners in understanding complex topics and biological processes





- NEW *Botany in Action* animations educate and entertain
- Integrates more material on modern discoveries in genetics and molecular biology
- Includes additional coverage of seeds and seedlings, genome sciences, current transports (PIN), gene regulation, flowering, and more

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PLANT SCIENCE



Botany A Lab Manual SIXTH EDITION

James D. Mauseth, University of Texas, Austin

Botany: A Lab Manual, Second Edition is designed to provide students with a hands-on learning experience that will enhance their understanding of plant biology. It includes a detailed examination of plant structure, plant groups, genetics, classification, and other topics pertinent to understanding plants.

ISBN: 978-1-284-11184-2 • Spiral/Paperback • 352 pages • © 2017 http://go.jblearning.com/BotanyLab6e



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.

ISBN: 978-1-4496-5717-8 • Paperback • 502 pages • © 2013 http://go.jblearning.com/Plants



Plant Biochemistry

Florence K. Gleason, University of Minnesota Raymond Chollet, University of Nebraska, Lincoln

Written for the upper-level undergraduate and graduate course, *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. To ensure full-student comprehension and retention, the text introduces basic metabolic pathways for the synthesis of lipids, steroids, and aromatic amino acids before discussing natural products such as lignin, flavonoids, and alkaloids.

ISBN: 978-0-7637-6401-2 • Paperback • 248 pages • © 2012 http://go.jblearning.com/Gleason

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