

Science

An Advanced and Electives Catalog



Biology: The Unity and Diversity of Life

Starr ■ Taggart ■ Evers ■ Starr

virtual **SAMPLE** 

Grades 10–12 | Thirteenth Edition © 2013

Cecie Starr and Ralph Taggart are among the most successful authors in biology instruction because of their approach, writing style, current coverage of the breadth of biology's topics, and their unique illustrations. Fulfilling the standards of the new AP[®] Biology course, the text has a lively, engaging writing style that conveys the central concepts and applications of human biology succinctly and accurately. In this edition, a new issues-oriented approach is introduced, which engages students in current, motivating biological topics; a built-in cross-referencing system for key topics; and, most importantly, time-saving media resources for instructors.

Hardcover, 1,024 pages

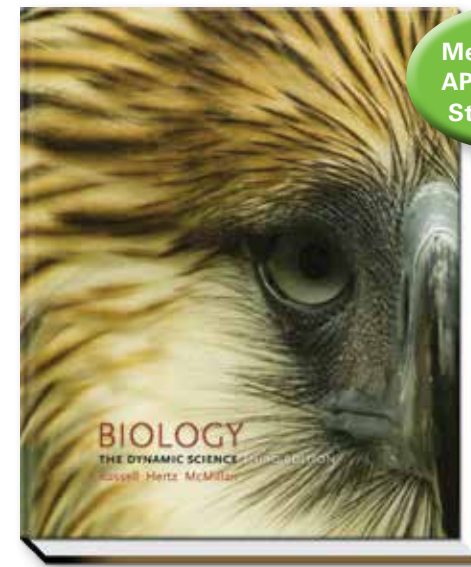
Fast Track to a 5: Preparing for the AP[®] Examination will help students study for the AP[®] exam quickly, efficiently, and effectively. The workbook is closely correlated to this AP[®] textbook program and includes a diagnostic test, test-taking strategies, course content review, and two full-length practice exams.

Paperback, 354 pages

Biology: The Unity and Diversity of Life, Thirteenth Edition © 2013

ISBN 13	Product	Price
978-1-285-72040-1	Student Edition (HS AP [®] Edition) + 6yrs CourseMate	158.00
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978-1-111-58135-0	AP [®] Teacher's Guide	50.00
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Meets New AP[®] Course Standards



Meets New AP[®] Course Standards

Biology: The Dynamic Science

Russell ■ Hertz ■ McMillan



Grades 9–12 | Third Edition © 2014

Help students think and engage like scientists! **Biology: The Dynamic Science**, Third Edition, allows students to develop a deep understanding of the core concepts in biology and builds a strong foundation for future courses. The authors explain complex ideas clearly and describe how biologists collect and interpret evidence to test hypotheses about the living world. Russell, Hertz, and McMillan spark students' curiosity about living systems instead of burying it under a mountain of disconnected facts. They engage students with what scientists know about the living world, how they know it, and what they still need to learn. By conveying the authors' passions for biological research, the text helps students cultivate the mental habits of scientists.

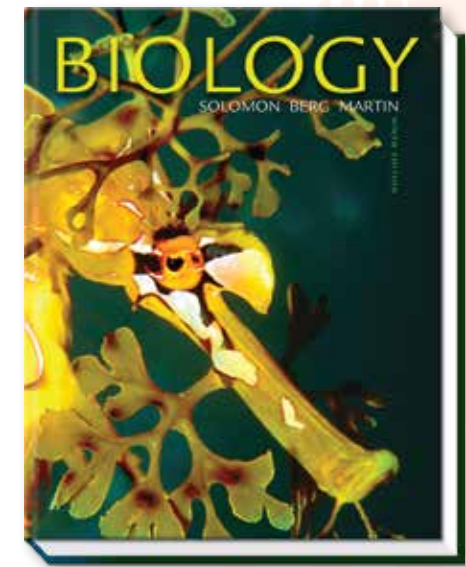
Hardcover, 1,456 pages

Fast Track to a 5: Preparing for the AP[®] Examination will help students study for the AP[®] exam quickly, efficiently, and effectively. The workbook is closely correlated to this AP[®] textbook program and includes a diagnostic test, test-taking strategies, course content review, and two full-length practice exams.

Paperback, 354 pages

Biology: The Dynamic Science, Third Edition © 2014

ISBN 13	Product	Price
978-1-285-72169-9	Student Edition (High School AP [®] Edition) + 6yrs Interactive eBook	158.00
978-1-285-93353-5	Student Edition (High School AP [®] Edition) + 1yr Interactive eBook	138.00
978-1-133-99803-7	AP [®] Teacher's Resource Guide	25.00
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Biology

Solomon ■ Berg ■ Martin



Grades 9–12 | Ninth Edition © 2011

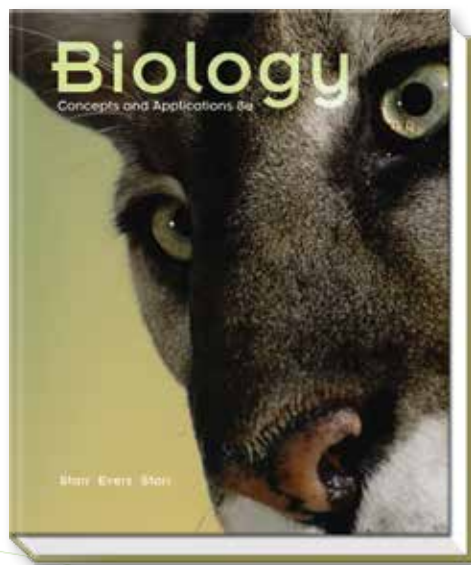
Solomon, Berg, and Martin's **Biology** helps students understand and retain the material with a superbly integrated learning system that guides them through every chapter. Reinforcing the learning system, "Key Point" statements accompany many figures, and "Key Experiment" sections encourage students to evaluate investigative approaches that real scientists have taken. "Inquiring About" boxes explore issues relevant to students' lives, providing a forum for discussing topics of current interest in more detail.

The ninth edition features integration of the text's three guiding themes of biology—evolution, information transfer, and energy for life—in the chapter opening essays, narrative, summaries, and concept links.

Hardcover, 1,408 pages

Biology, Ninth Edition © 2011

ISBN 13	Product	Price
978-1-285-72166-8	Student Edition (High School Edition) + 6yrs CourseMate	158.00
978-1-581-75839-9	Student Edition (High School Edition) + 1yr CourseMate	138.00
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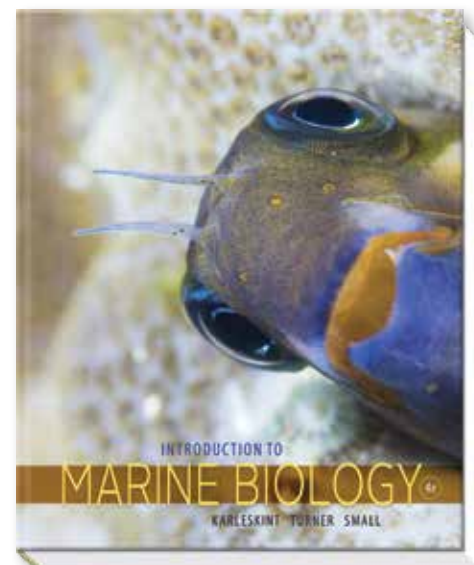
Biology: Concepts and Applications

Starr ■ Evers ■ Starr

Grades 11–12 | Eighth Edition © 2011

Biology: Concepts and Applications provides an introductory issues-oriented approach to biology that requires an understanding of the process of science and basic biological principles. Helping visual learners, “Figure It Out” questions in many illustrations ensure students understand the concepts. The new Data Analysis Activities at the end of every chapter help students strengthen their analytical skills. New “Take Home Messages” ensure students grasp key concepts while special features like the chapter-opening case studies and “How Would You Vote?” questions enliven the subject matter and make relevant connections between biology and real-life concerns.

Hardcover, 864 pages



Introduction to Marine Biology

Karleskint ■ Turner ■ Small

Grades 9–12 | Fourth Edition © 2013

Introduction to Marine Biology distinguishes itself from other texts at this introductory level by taking an ecological approach to the study of marine biology, helping students understand the human impact on the marine environment and appreciate the beauty of the sea and its creatures. The text has been broadened with additional coverage of plant, microbial, planktonic, and animal biology. It also boasts an increased “ecological focus” through the addition of discussions on “ecological roles and relationships.” This theme is carried throughout the text, allowing for dynamic class discussions and greater understanding of marine life and environmental change.

Hardcover, 512 pages



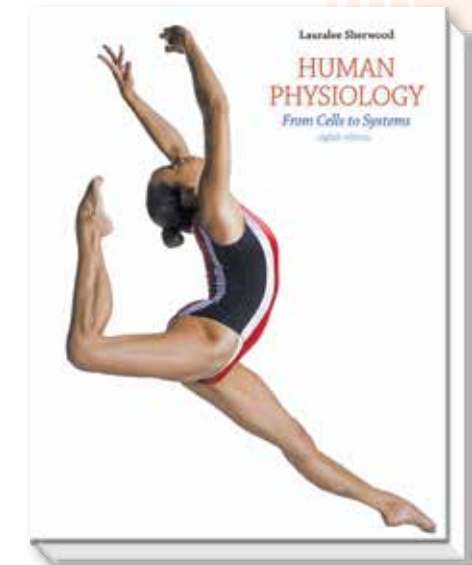
Human Heredity: Principles and Issues

Cummings

Grades 9–12 | Tenth Edition © 2014

Human Heredity presents the concepts underlying human genetics in clear, concise language and engages students with examples that they can apply to themselves, their families, and their work environment. Author Michael Cummings explains the origin, nature, and amount of genetic diversity present in the human population and how that diversity has been shaped by natural selection. The artwork and accompanying media support visual learners by teaching rather than merely illustrating the ideas under discussion. Examining the social, cultural, and ethical implications associated with the use of genetic technology, Cummings prepares students to become well-informed consumers of genetic-based health care services or providers of health care services.

Paperback, 496 pages



Human Physiology: From Cells to Systems

Sherwood

Grades 9–12 | Eighth Edition © 2013

Human Physiology focuses on the mechanisms of body function from cells to systems and is organized around the central theme of homeostasis—how the body meets changing demands while maintaining the internal constancy necessary for all cells and organs to function. As an author, Lauralee Sherwood is known for the most up-to-date and accurate coverage as well as strong pedagogy, making the text the most effective learning tool. Plus, the program offers a complete complement of media tools for learning and teaching. Additionally, this new edition has an entirely revised art program offering realistic and three-dimensional art as well as new flow diagrams. The new art program helps students visualize difficult concepts and processes for better understanding and mastery of concepts.

Hardcover, 928 pages

Biology: Concepts and Applications, Eighth Edition © 2011

ISBN 13	Product	Price
978-1-285-72170-5	Student Edition (High School Edition) + 6yrs PDF eBook	125.00
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Introduction to Marine Biology, Fourth Edition © 2013

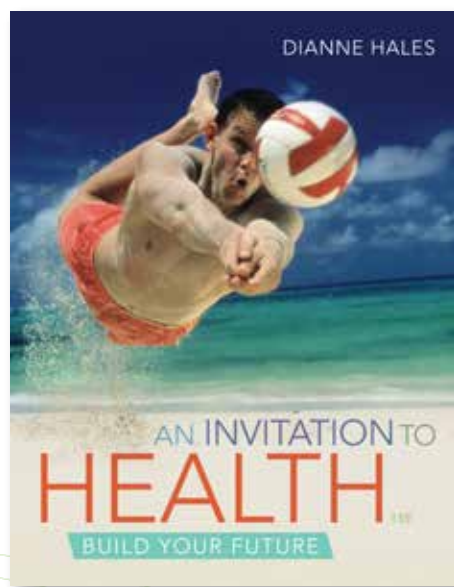
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Human Heredity: Principles and Issues, Tenth Edition © 2014

ISBN 13	Product	Price
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978-1-133-10865-8	PowerLecture DVD-ROM with ExamView	63.25

Human Physiology: From Cells to Systems, Eighth Edition © 2013

ISBN 13	Product	Price
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978-1-111-99041-1	Study Guide	61.50
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An Invitation to Health: Build Your Future

Hales

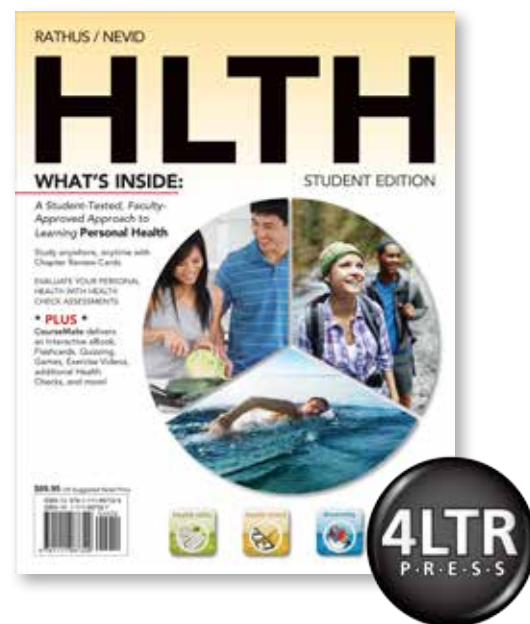
Grades 9–12 | Fifteenth Edition © 2013

In this new edition of the market-leading personal health text, Dianne Hales invites your students to build their future of healthy living by applying the concepts to evaluate their current lifestyle and make healthy changes. Delivering the most current and thorough coverage available, **An Invitation To Health: Build Your Future** integrates a comprehensive presentation of health concepts—body, mind, and spirit—with a wealth of applications for the students' lives, including “Your Strategies for Change,” “Your Strategies for Prevention,” and “Making Change Happen.” New to this edition is a feature called “Health in Action,” which provides a brief list of Do’s and Don’ts for specific behaviors. Recognizing the impact of the current economic environment, “Health on a Budget” demonstrates practical ways that students can achieve their goals by drawing on internal resources.

Paperback, 704 pages

An Invitation to Health: Build Your Future, Fifteenth Edition © 2013

ISBN 13	Product	Price
978-1-111-82700-7	Student Edition	137.00
978-1-111-99031-2	Instructor’s Manual with Test Bank	25.00
978-1-111-99050-3	PowerLecture DVD-ROM with ExamView	55.00



HLTH

Rathus ■ Nevid

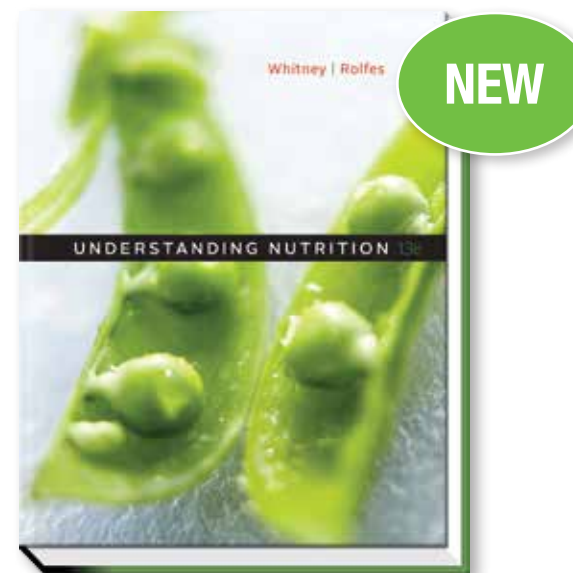
Grades 9–12 | First Edition © 2013

Created through a student-tested, faculty-approved review process, the **4LTR Press Series** offers concise and visually appealing text solutions to accommodate the diverse learning styles of today’s students. Shorter, comprehensive chapters in a modern design present the modes-based content in an engaging and accessible format without minimizing coverage for your course. A full suite of unique learning tools includes printed Chapter In Review cards and online interactive quizzes, animations, videos, and flashcards. **HLTH** engages students with interactive Health Check assessments, in addition to a range of features on everything from the effect of socioeconomic status on health to a checklist to help choose a primary care physician, that help students relate course concepts to their personal lives.

Paperback, 400 pages

HLTH, First Edition © 2013

ISBN 13	Product	Price
978-1-111-98732-9	HLTH, Student Edition ©2013	67.50
978-1-111-98804-3	HLTH, PowerLecture CD-ROM with ExamView	54.25



Understanding Nutrition

Whitney ■ Rolfes

Grades 9–12 | Thirteenth Edition © 2013

The Thirteenth Edition takes **Understanding Nutrition** to a new level with an integrated pedagogy, along with an emphasis on active learning, assignable content, and integrated resources that support instructors’ course objectives and students’ future career opportunities. From its beautiful and carefully developed art program to its strong science base, contemporary coverage, and market-leading supplements, the Thirteenth Edition of **Understanding Nutrition** connects with its readers and continues to set the standard for texts in this market. This text includes 20 chapters beginning with core nutrition topics, such as diet planning, macronutrients, vitamins and minerals, and following with chapters on diet and health, fitness, life span nutrition, food safety, and world hunger. Praised for its consistent level, approachable narrative, and careful explanations of key topics, **Understanding Nutrition** connects with students - engaging them as it teaches the basic concepts and applications of nutrition.

Hardcover, 928 pages

Understanding Nutrition, Thirteenth Edition © 2013

ISBN 13	Product	Price
978-1-133-58752-1	Student Edition	173.00
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978-1-133-60444-0	Instructor’s Manual	25.00
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NUTR

McGuire ■ Beerman

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Created through a student-tested, faculty-approved review process, the **4LTR Press Series** offers concise and visually appealing text solutions to accommodate the diverse learning styles of today’s students. Shorter, comprehensive chapters in a modern design present the modes-based content in an engaging and accessible format without minimizing coverage for your course. A full suite of unique learning tools includes printed Chapter In Review cards and online interactive quizzes, animations, videos, and flashcards. **NUTR** will help students understand the true impact of nutrition on a personal and global scale.

Paperback, 400 pages

NUTR, First Edition © 2013

ISBN 13	Product	Price
978-1-111-57892-3	NUTR, Student Edition ©2013	63.75
978-1-111-82888-2	NUTR, PowerLecture CD-ROM with ExamView	55.00

Living in the Environment ^{AP*}

Miller ■ Spoolman

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Grades 9–12 | Seventeenth Edition © 2012

Select the most comprehensive, up-to-date environmental science text on the market to strengthen your AP* class. *Living in the Environment* has led the way in using scientific laws, principles, models, concepts, and critical thinking to help students understand environmental and resource problems and their possible solutions and to clearly see how concepts, problems, and solutions are interconnected. Updated with current information, art, and “Good News” examples, the text engages and motivates students with vivid case studies and hands-on quantitative exercises. The concept-centered approach transforms complex environmental topics and issues into key concepts that students will understand and remember. Overall, by framing the concepts with goals for more sustainable lifestyles and human communities, students see how promising the future can be.

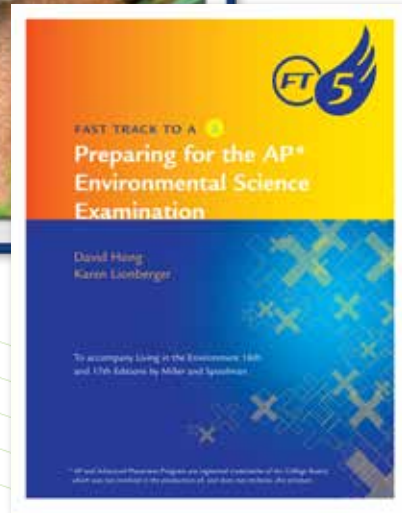
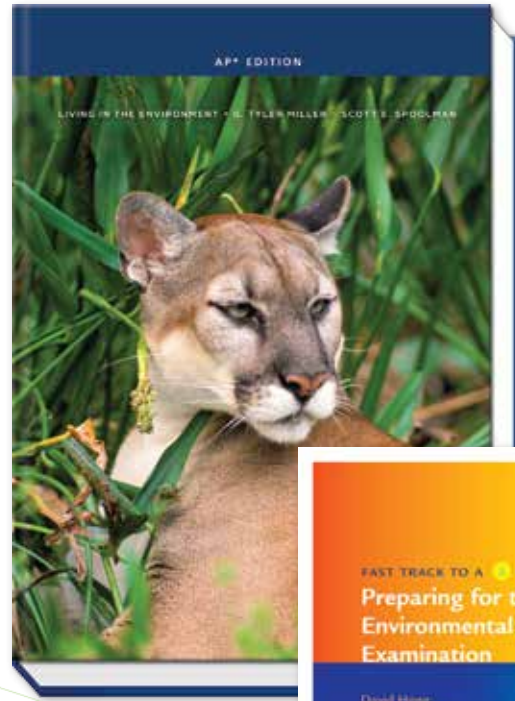
Hardcover, 800 pages

Fast Track to a 5: Preparing for the AP* Examination will help students study for the AP* exam quickly, efficiently, and effectively. The workbook is closely correlated to this AP* textbook program and includes a diagnostic test, test-taking strategies, course content review, and two full-length practice exams.

Paperback, 354 pages

Living in the Environment, Seventeenth Edition © 2012

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978-1-133-11084-2	ExamView Testing CD-ROM	50.00
978-0-538-49382-6	Fast Track to a 5: Student Workbook	29.25



Environmental Science

Miller ■ Spoolman

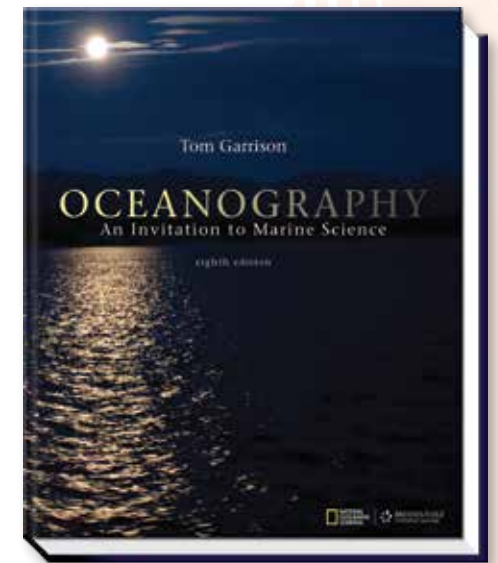
Grades 9–12 | Fourteenth Edition © 2013

This more concise alternative to *Living in the Environment* is appropriate for an honors environmental science course. *Environmental Science* boasts unparalleled coverage of sustainability, basic science, and bias-free explanations, all within a flexible chapter organization. The book's science- and concept-centered approach encourages students to think about important concepts and issues that affect their lives. Core case studies illustrate key topics and issues, reinforcing the sustainability theme. These and other cases inspire almost 70 “How Would You Vote?” questions, which sharpen students' critical thinking by asking them to consider facts, conflicting solutions, and trade-offs surrounding the issues, and then cast their vote.

Hardcover, 576 pages

Environmental Science, Fourteenth Edition © 2013

ISBN 13	Product	Price
978-1-285-72159-0	Student Edition (High School Edition) + 6yrs CourseMate	125.00
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978-1-133-48979-5	Teacher's Manual	25.00
978-0-495-56024-1	Lab Manual for Environmental Science	78.75
978-1-133-48804-0	CourseMate Premium Website with eBook	67.50



Oceanography: An Invitation to Marine Science

Garrison

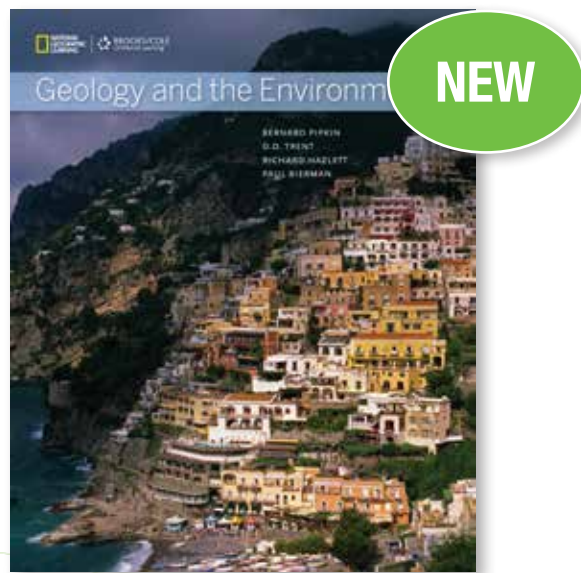
Grades 9–12 | Eighth Edition © 2013

Oceanography provides a basic understanding of the scientific questions, complexities, and uncertainties involved in ocean use, as well as the role and importance of the ocean in nurturing and sustaining life on the planet. Garrison also emphasizes the interdisciplinary nature of marine science, stressing its links to biology, chemistry, geology, physics, meteorology, astronomy, ecology, history, and economics. In addition to coverage of new research, the eighth edition features increased information on climate change, with icons throughout the book to help students easily identify and connect the many factors that affect the world's climate and oceans.

Hardcover, 608 pages

Oceanography: An invitation to Marine Science, Eighth Edition © 2013

ISBN 13	Product	Price
978-1-111-99084-8	Student Edition	185.00
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978-1-111-99089-3	PowerLecture Teacher's CD-ROM	57.75



Geology and the Environment

Pipkin ■ Trent ■ Hazlett ■ Bierman

Grades 9–12 | Seventh Edition © 2014

Geology and the Environment explores the relationship between humans and the geologic hazards, processes, and resources that surround us. The stellar author team has the most field expertise, and the greatest depth of experience in bringing this knowledge to the student of any in this market. The photo and art program has been extensively updated to facilitate student understanding and appreciation of the powerful impacts of geological phenomena. Over 200 new and impactful photos and maps, available exclusively from the National Geographic Society, help students develop an appreciation for the immense power and beauty of geologic phenomena. The authors have fully integrated coverage of how climate change and global warming impact geologic processes, setting the context for understanding how Man's interaction with the Earth System contributes to these circumstances. The acclaimed Case Studies feature at the end of chapters now includes 10 cases on climate change and global warming topics.

Paperback, 656 pages



GEOL

Wicander ■ Monroe

Grades 9–12 | Second Edition © 2013

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GEOL focuses on the core concepts of physical geology, including strong coverage of systems and plate tectonics, and devotes three chapters to historical geology, giving students a complete overview of all facets of introductory geology.

Paperback, 448 pages



An Introduction to Physical Science

Shipman ■ Wilson ■ Higgins Jr.

Grades 9–12 | Thirteenth Edition © 2013

Appealing to a broad range of high school science courses, **An Introduction to Physical Science** presents content in such a way that students develop the critical reasoning and problem-solving skills that are needed in an ever-changing technological world. The authors emphasize fundamental concepts as they progress through the five divisions of physical sciences: physics, chemistry, astronomy, meteorology, and geology. With both descriptive and quantitative coverage for maximum flexibility, the text also features regular opportunities for practice and review, with new features that support visualization, basic math, and problem solving.

Hardcover, 792 pages



EARTH

Thompson ■ Turk

Grades 11–12 | First Edition © 2011

Created through a student-tested, faculty-approved review process, the **4LTR Press Series** offers concise and visually appealing text solutions to accommodate the diverse learning styles of today's students. Shorter, comprehensive chapters in a modern design present the modes-based content in an engaging and accessible format without minimizing coverage for your course. A full suite of unique learning tools includes printed Chapter In Review cards and online interactive quizzes, animations, videos, and flashcards.

EARTH presents a rich overview of all Earth-related disciplines. It explores the physical attributes of planet Earth and its environment, emphasizing the human choices we have made, and exploring the physical consequences of those choices in the context of Earth systems.

Paperback, 448 pages

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978-1-133-10917-4	GEOL, PowerLecture DVD-ROM with ExamView	55.00

An Introduction to Physical Science, Thirteenth Edition © 2013

ISBN 13	Product	Price
978-1-133-10409-4	Student Edition	194.75
978-1-133-10925-9	Laboratory Manual	71.00
978-1-133-11189-4	PowerLecture DVD with Testing	50.00

EARTH, First Edition © 2011

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Chemistry

Zumdahl • Zumdahl



Grades 11–12 | Ninth Edition © 2014

Available March 2013

Chemistry's hallmark problem-solving approach and focus on conceptual development come to life in this new AP* edition with interactive problems that promote active learning and visualization. The authors emphasize a qualitative approach to chemistry in both the text and the technology program before quantitative problems are considered, helping to build comprehension. The emphasis on modeling throughout the narrative addresses the problem of rote memorization by helping students to better understand and appreciate the process of scientific development. New Critical Thinking Questions have been added throughout the text to emphasize the importance of conceptual learning. New ChemWork Problems have been added to the end-of-chapter problems throughout the text to test students' understanding of core concepts. They can be worked as pencil-and-paper problems or in interactive form in the OWL homework management system.

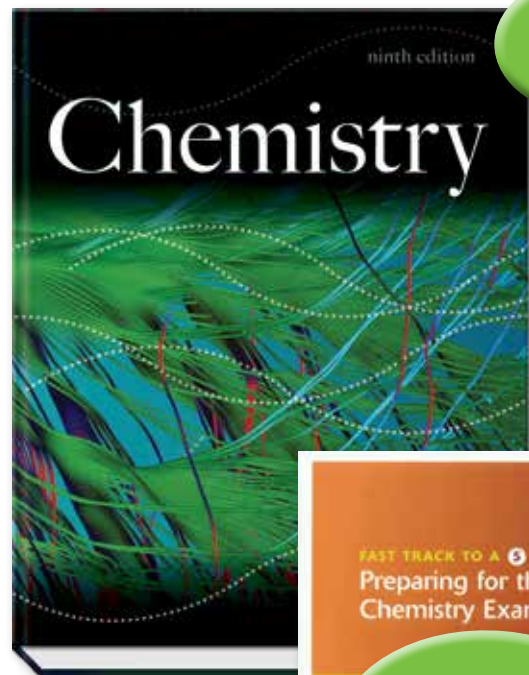
Hardcover, 1,200 pages

Fast Track to a 5: Preparing for the AP* Examination will help students study for the AP* exam quickly, efficiently, and effectively. The workbook is closely correlated to this AP* textbook program and includes a diagnostic test, test-taking strategies, course content review, and two full-length practice exams.

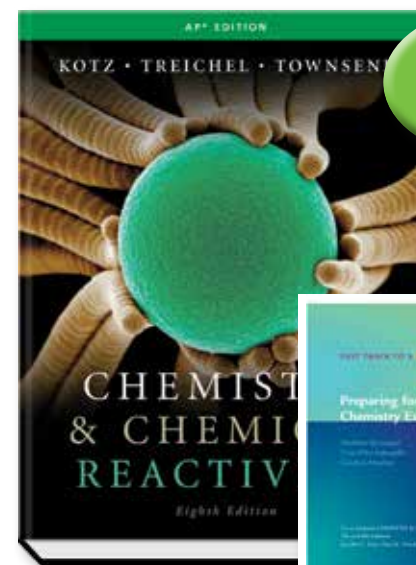
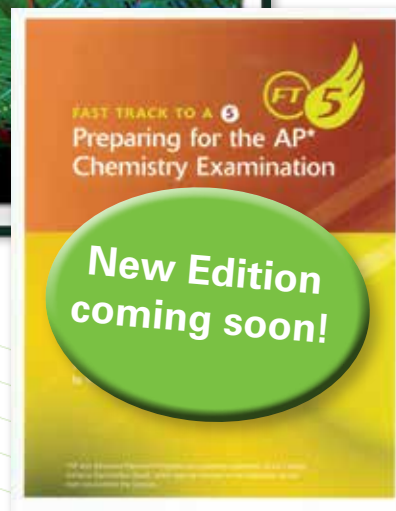
Paperback, 384 pages

Chemistry, Ninth Edition © 2014

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Chemistry & Chemical Reactivity

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The AP* edition of **Chemistry & Chemical Reactivity** continues to offer the signature clear explanations, macro to micro orientation, enhanced problem-solving strategies, and superior art program that have made it a bestseller. The text emphasizes the visual nature of chemistry, illustrating the close interrelationship of the macroscopic, symbolic, and particulate levels of chemistry. The highly acclaimed art program illustrates each of these levels in engaging detail—and is fully integrated with key media components. Now featuring more coverage of green/sustainable chemistry, the new edition provides students with even more problem-solving support through a revised format for worked problems, new problem strategy maps, new “Review & Check” problems, and more.

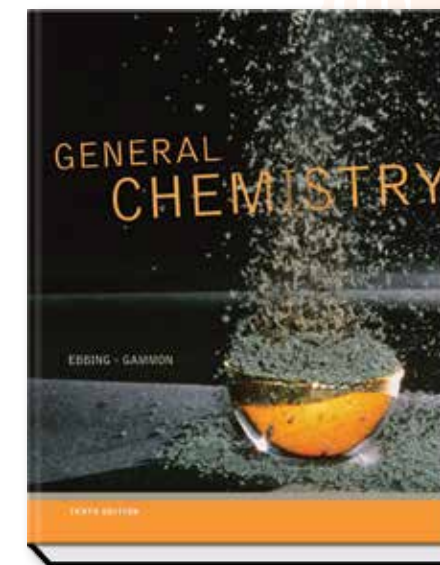
Hardcover, 1,312 pages

Fast Track to a 5: Preparing for the AP* Examination will help students study for the AP* exam quickly, efficiently, and effectively. The workbook is closely correlated to this AP* textbook program and includes a diagnostic test, test-taking strategies, course content review, and two full-length practice exams.

Paperback, 384 pages

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General Chemistry

Ebbing • Gammon



Grades 11–12 | Tenth Edition © 2013

Known for its carefully developed, thoroughly integrated, step-by-step approach to problem solving, **General Chemistry** helps students master quantitative skills and build a lasting conceptual understanding of key chemistry concepts. The tenth edition retains this hallmark approach and builds on the conceptual focus through new features and revisions.

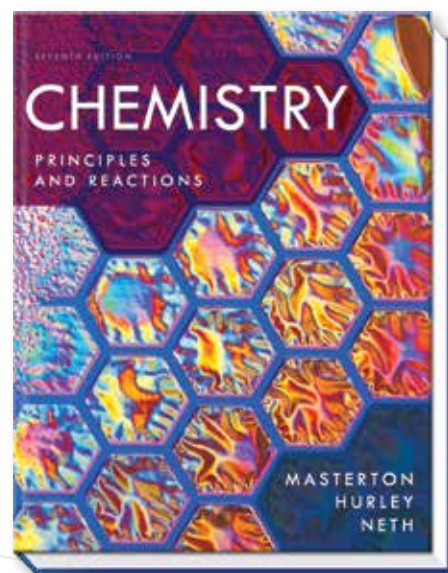
A new pedagogical feature has been added to all of the examples throughout the book called the “Gaining Mastery Toolbox.” Every toolbox contains “Critical Concepts” and “Solution Essentials.” Critical Concepts are relevant concepts from the chapter that the student needs to know in order to work through the example. The Solution Essential segment features a list of information needed to solve the problem presented.

New Two Tier questions require students first to respond to a question, then to provide a reason why they chose their answer.

Hardcover, 1,168 pages

General Chemistry, Tenth Edition © 2013

ISBN 13	Product	Price
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Chemistry: Principles and Reactions

Masterton ■ Hurley ■ Neth



Grades 10–12 | Seventh Edition © 2012

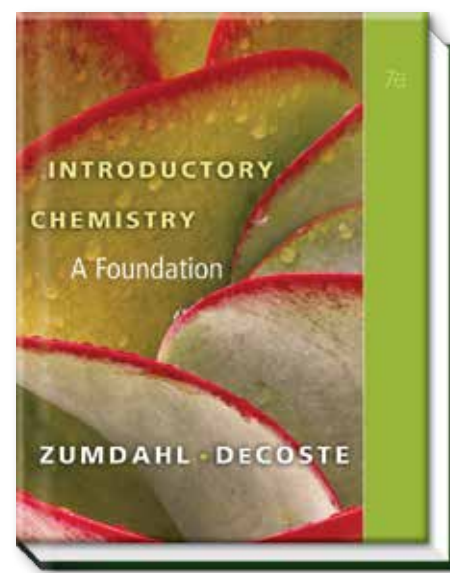
Masterton and Hurley optimize students' study time by concisely presenting all fundamental topics of general chemistry in a brief textbook. The text is written in a clear and concise manner so students can easily grasp the concepts.

Chemistry: Principles and Reactions, Seventh Edition, takes students directly to the crux of chemistry's fundamental concepts and allows you to efficiently cover all topics found in the typical general chemistry book. Based on the authors' extensive teaching experience, this updated edition includes new concept-driven, rigorous examples, updated examples that focus on molecular reasoning and understanding, and "Chemistry: Beyond the Classroom" essays that demonstrate the relevance of the concepts and highlight some of the most up-to-date uses of chemistry. A strong, enhanced art program assists students in visualizing chemical concepts.

Hardcover, 736 pages

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Introductory Chemistry: A Foundation

Zumdahl ■ DeCoste

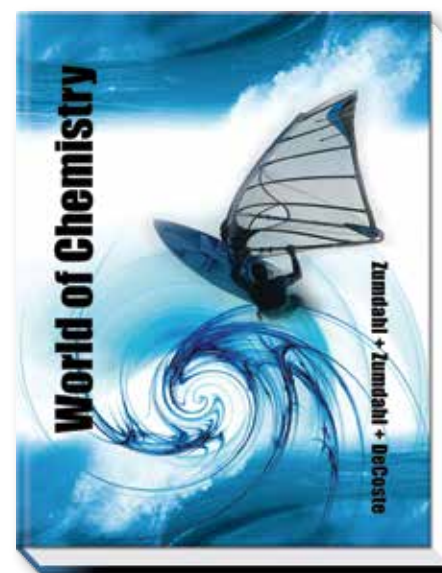
Grades 10–12 | Seventh Edition © 2011

The Seventh Edition of **Introductory Chemistry: A Foundation** offers unparalleled teaching and learning resources with a robust technology package, in addition to the superior problem-solving pedagogy, engaging writing style, and strong emphasis on everyday applications that comprise the hallmarks of this best-selling text. Chemical reactions are covered early to capture student interest, leaving more abstract material for later chapters. The authors explain chemical concepts by starting with the basics, using symbols or diagrams, and conclude by encouraging students to test their own comprehension of the solution.

Hardcover, 800 pages

Introductory Chemistry: A Foundation, Seventh Edition © 2011

ISBN 13	Product	Price
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World of Chemistry

Zumdahl ■ Zumdahl ■ DeCoste

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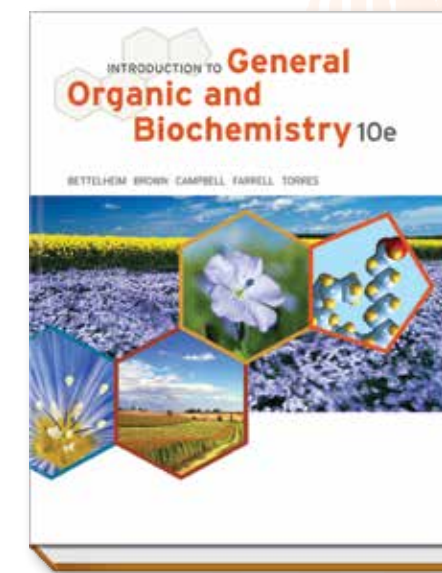
World of Chemistry was developed specifically for use in high school chemistry classes. It is known for its accessibility with its use of excellent visuals, numerous problem-solving examples, wide range of end-of-chapter exercises, and real-world applications. A unique Table of Contents keeps student needs in mind—measurements and calculations are taught right before they are needed rather than several chapters earlier, to avoid having to re-teach the mathematics. Macro-to-micro organization introduces the "language" of chemistry early—formula writing, equations, moles, etc.—and delays coverage of atomic theory and bonding until later.

Active learning strategies include a conceptual approach to problem solving, worked-out examples, and chapter review that incorporate critical thinking. Problem-solving support for students includes examples in the text paired with worked-out solutions that demonstrate the reasoning used to solve the problem. Differentiated learning accommodation includes reading support, a Meeting Individual Needs Toolkit, leveled practice problems, team learning worksheets, and a full range of tech support products.

Hardcover, 781 pages

World of Chemistry, Third Edition © 2013

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Introduction to General, Organic, and Biochemistry

Bettelheim ■ Brown ■ Campbell ■ Farrell ■ Torres

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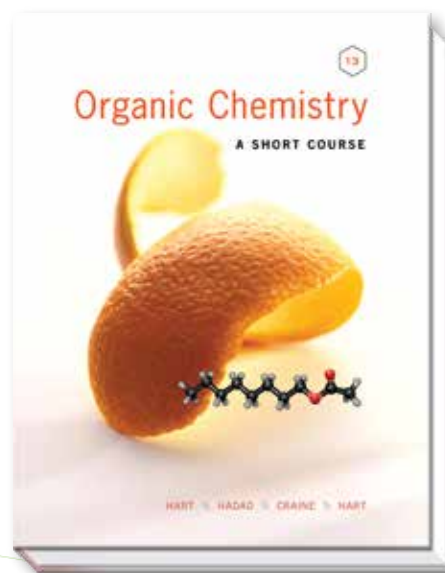
The best-selling text continues to lead the way with a strong focus on current issues, pedagogically rich framework, wide variety of medical and biological applications, visually dynamic art program, and exceptionally strong and varied end-of-chapter problems.

Revised and updated throughout, the tenth edition now includes new biochemistry content, new "Chemical Connections" essays, new and revised problems, and more.

Hardcover, 1,008 pages

Introduction to General, Organic, and Biochemistry, Tenth Edition © 2013

ISBN 13	Product	Price
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Organic Chemistry: A Short Course

Hart ■ Hadad ■ Craine ■ Hart

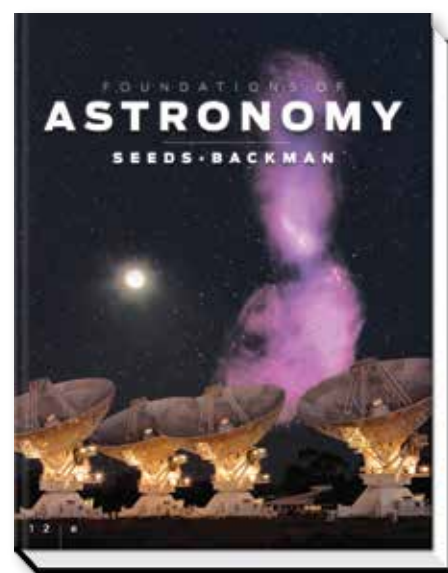
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This market-leading text for introductory organic chemistry classes emphasizes practical, real-life applications, coverage of basic concepts, and engaging visuals. In contrast to other texts for the course that are streamlined versions of full-year texts, this text was created from the ground up to offer a writing style, approach, and selection of topics that uniquely meet the needs of the short course. The thirteenth edition builds on the strengths of previous editions through an updated, dynamic art program—online, on CD, and in the text—new content that keeps students current with developments in the organic chemistry field, and a revised lab manual.

Hardcover, 608 pages

Organic Chemistry: A Short Course, Thirteenth Edition © 2012

ISBN 13	Product	Price
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Foundations of Astronomy

Seeds ■ Backman

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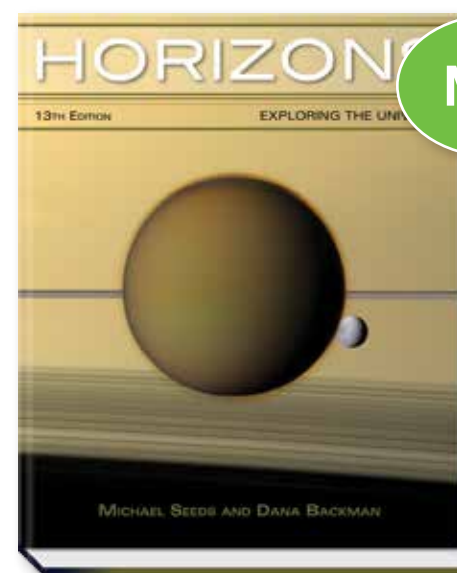
Fascinating, engaging, and extremely visual, *Foundations of Astronomy*, Twelfth Edition, emphasizes the scientific method throughout as it guides students to answer two fundamental questions: “What are we?” and “How do we know?” Highlighting the newest developments and latest discoveries in the exciting study of astronomy, authors Michael Seeds and Dana Backman discuss the interplay between evidence and hypothesis, while providing not only fact but also a conceptual framework for understanding the logic of science.

New coverage includes the latest updates on Earth-based giant telescopes and giant radio telescopes, information emphasizing observations over the entire electromagnetic spectrum, and insight on global warming and ozone depletion.

Hardcover, 688 pages

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NEW

Horizons: Exploring the Universe

Seeds ■ Backman

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The Thirteenth Edition of *Horizons* delivers the proven Seeds/Backman approach and trusted content, fully updated with the latest discoveries and online resources to meet the needs of today's diverse learners. Focusing on two central questions—“What are we?” and “How Do We Know?”—Seeds and Backman help students understand their place in the universe, and how scientists work. The text's conversational and student-friendly writing style helps students acquire an understanding of the universe over rote memorization of basic facts. Chapter opener “Guideposts” connect previous and future chapters to the material the students are about to read, highlighting “important questions” within that chapter to help motivate students to read. “Concept art portfolios” combine several ideas over two pages, providing an opportunity for students to process information visually and synthesize individual understanding.

Hardcover, 488 pages

Horizons: Exploring the Universe, Thirteenth Edition © 2014

ISBN 13	Product	Price
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Created through a student-tested, faculty-approved review process, the **4LTR Press Series** offers concise and visually appealing text solutions to accommodate the diverse learning styles of today's students. Shorter, comprehensive chapters in a modern design present the modes-based content in an engaging and accessible format without minimizing coverage for your course. A full suite of unique learning tools includes printed Chapter In Review cards and online interactive quizzes, animations, videos, and flashcards.

ASTRO employs the same engaging writing style and logical conceptual presentation that has become a hallmark of Mike Seeds and Dana Backman's introductory astronomy texts.

Hardcover, 352 pages

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PHYSICS

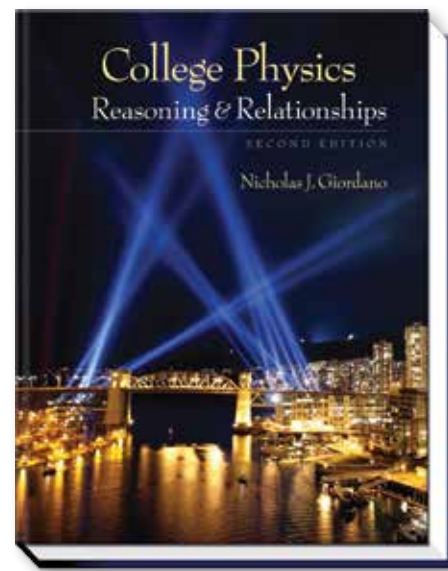
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Created through a student-tested, faculty-approved review process, the **4LTR Press Series** offers concise and visually appealing text solutions to accommodate the diverse learning styles of today's students. Shorter, comprehensive chapters in a modern design present the modes-based content in an engaging and accessible format without minimizing coverage for your course. A full suite of unique learning tools includes printed Chapter In Review cards and online interactive quizzes, animations, videos, and flashcards.

PHYSICS maintains the perfect balance of quantitative and conceptual content by carefully incorporating problem solving into a discernible conceptual framework.

Hardcover, 400 pages



College Physics: Reasoning and Relationships

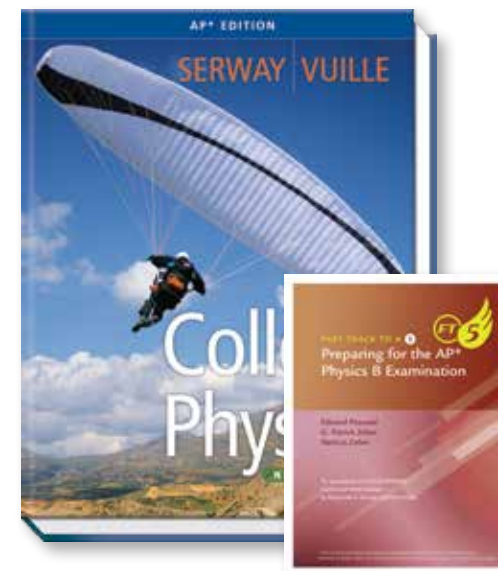
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College Physics: Reasoning and Relationships motivates student understanding by emphasizing the relationship between major physics principles, and how to apply the reasoning of physics to real-world examples. Such examples come naturally from the life sciences, and this text ensures that students develop a strong understanding of how the concepts relate to each other and to the real world. **College Physics: Reasoning and Relationships** motivates student learning with its use of these original applications drawn from the life sciences and familiar everyday scenarios, and prepares students for the rigors of the course with a consistent five-step problem-solving approach.

Hardcover, 1,208 pages



College Physics

Serway ■ Vuille



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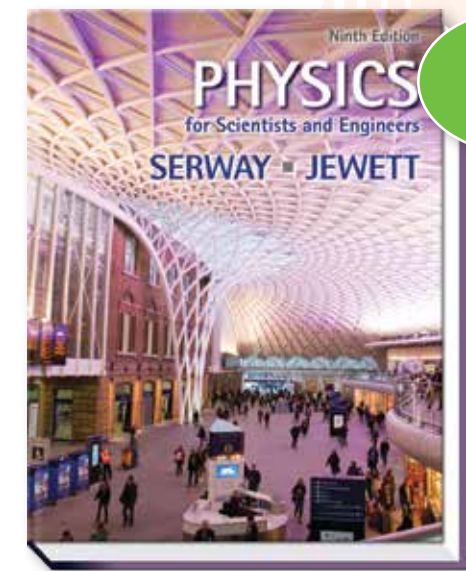
Show your AP* Physics B students how physics works in the real world with this clear, logical, algebra-based presentation of the basic concepts and principles of physics. **College Physics**, Ninth Edition, provides a clear strategy for connecting theories to a consistent problem-solving approach, carefully reinforcing this methodology throughout the text and connecting it to real-world examples.

The latest findings of physics education research have been integrated throughout the text, placing more emphasis on critical and conceptual thinking.

Hardcover, 1,120 pages

Fast Track to a 5: Preparing for the AP* Examination will help students study for the AP* exam quickly, efficiently, and effectively. The workbook is closely correlated to this AP* textbook program and includes a diagnostic test, test-taking strategies, course content review, and two full-length practice exams.

Paperback, 354 pages



NEW

Physics for Scientists and Engineers

Serway ■ Jewett



Grades 11–12 | Ninth Edition © 2014

Reveal the function and simplicity of physics for your AP* Physics C students, while highlighting its essential role in other disciplines—from engineering to medicine—using this proven text. Recognized for concise writing, careful problem sets, world-class worked examples, and leading-edge learning features, this authoritative, calculus-based text maintains the book's high standards in an integrated, enhanced supplemental package that helps you provide your AP* students with the best in introductory physics education.

The new edition includes stronger integration of the analysis model approach to problem solving. Because students often find it easier to identify a situation rather than a fundamental principle, this revision highlights the Analysis Model approach which lays out a standard set of situations that appear in most physics problems, and serves as a bridge to help students identify the correct fundamental principle—and then the equation—to utilize in solving that problem. To better integrate the Analysis Model approach, Analysis Model boxes provide examples of the types of problems that students could solve using the model. These boxes function as a “refresher” before students see the Analysis Models in use in the worked examples for a given section.

Hardcover, 1,232 pages

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