Astronomy Today Volume 1 The Solar System 8th Edition

Since the dawn of humankind, people have looked upward to the heavens and tried to understand them. This encyclopedia takes you on an expedition through time and space to discover our place in the universe. We invite you to take a journey through the wonders of the universe. Explore the cosmos, from planets to black holes, the Big Bang, and everything in-between! Get ready to discover the story of the universe one page at a time! This educational book for young adults will launch you on a wild trip through the cosmos and the incredible discoveries throughout history. Filled to the brim with beautifully illustrated flowcharts, graphics, and jargon-free language, The Astronomy Book breaks down hard-to-grasp concepts to guide you in understanding almost 100 big astronomical ideas. Big Ideas How do we measure the universe? Where is the event horizon? What is dark matter? Now you can find out all the answers to these questions and so much more in this inquisitive book about our universe! Using incredibly clever visual learning devices like step-by-step diagrams, you'll learn more about captivating topics from the Copernican Revolution. Dive into the mind-boggling theories of recent science in a user-friendly format that makes the information easy to follow. Explore the biographies, theories, and discoveries of key astronomers through the ages such as Ptolemy, Galileo, Newton, Hubble, and Hawking. To infinity and beyond! Journey through space and time with us: - From Myth to Science 600 BCE - 1550 CE - The Telescope Revolution 1550 - 1750 - Uranus to Neptune 1750 - 1850 - The Rise of Astrophysics 1850 - 1915 - Atom, Stars, And Galaxies 1915 - 1950 - New Windows on The Universe 1950 - 1917 - The Triumph of Technology 1975 - Present The Series Simply Explained With over 7 million copies sold worldwide to date, The Astronomy Book is part of the award-winning Big Ideas Simply Explained series from DK Books. It uses innovative graphics along with engaging writing to make complex subjects easier to understand. Shortlisted: A Young Adult Library Services Association Outstanding Books for the College Bound and Lifelong Learners list selection A Mom's Choice Awards® Honoring Excellence Gold Seal of Approval for Young Adult Books A Parents' Choice Gold Award winner

Discover how to find constellations like the Royal Family group or those near Orion the Hunter from season to season throughout the year How to use the Sea of Crises as your guidepost for further explorations on the moon's surface Investigate deep sky wonders, extra solar planets, and beyond as God's creation comes alive! Think you know all there is to know about our solar system? You might be surprised at some of the amazing details that you find when you begin Exploring the World of Astronomy! From the rugged surface of the moon to the distant and mysterious constellations, this book provides an exciting educational tour for students of different ages and skill levels. Learn about a blue moon, the 400-year storm on Jupiter, and what is meant by "the zone of life." Discussion ideas, questions, and research opportunities help expand this great resource on observational astronomy into an unforgettable educational course for middle school to high school students!

Ptolemy's Almagest is one of the most influential scientific works in history. A masterpiece of technical exposition, it was the basic textbook of astronomy for more than a thousand years, and still is the main source for our knowledge of ancient astronomy. This

translation, based on the standard Greek text of Heiberg, makes the work accessible to English readers in an intelligible and reliable form. It contains numerous corrections derived from medieval Arabic translations and extensive footnotes that take account of the great progress in understanding the work made in this century, due to the discovery of Babylonian records and other researches. It is designed to stand by itself as an interpretation of the original, but it will also be useful as an aid to reading the Greek text.

Mathematical Modelling sets out the general principles of mathematical modelling as a means comprehending the world. Within the book, the problems of physics, engineering, chemistry, biology, medicine, economics, ecology, sociology, psychology, political science, etc. are all considered through this uniform lens. The author describes different classes of models, including lumped and distributed parameter systems, deterministic and stochastic models, continuous and discrete models, static and dynamical systems, and more. From a mathematical point of view, the considered models can be understood as equations and systems of equations of different nature and variational principles. In addition to this, mathematical features of mathematical models, applied control and optimization problems based on mathematical models, and identification of mathematical models are also presented. Features Each chapter includes four levels: a lecture (main chapter material), an appendix (additional information), notes (explanations, technical calculations, literature review) and tasks for independent work; this is suitable for undergraduates and graduate students and does not require the reader to take any prerequisite course, but may be useful for researchers as well Described mathematical models are grouped both by areas of application and by the types of obtained mathematical problems, which contributes to both the breadth of coverage of the material and the depth of its understanding Can be used as the main textbook on a mathematical modelling course, and is also recommended for special courses on mathematical models for physics, chemistry, biology, economics, etc.

Astronomy is by nature an interdisciplinary activity: it involves mathematics, physics, chemistry and biology. Astronomers use (and often develop) the latest technology, the fastest computers and the most refined software. In this book twenty-two leading scientists from nine countries talk about how astronomy interacts with these other sciences. They describe modern instruments used in astronomy and the relations between astronomy and technology, industry, politics and philosophy. They also discuss what it means to be an astronomer, the history of astronomy, and the place of astronomy in society today.

With Astronomy Today, Seventh Edition, trusted authors Eric Chaisson and Steve McMillan communicate their excitement about astronomy and awaken you to the universe around you. The text emphasizes critical thinking and visualization, and it focuses on the process of scientific discovery, making “how we know what we know” an integral part of the text. The revised edition has been thoroughly updated with the latest astronomical discoveries and theories, and it has been streamlined to keep you focused on the essentials and to develop an understanding of the “big picture.” Astronomy Today Volume 1: The Solar System focuses primarily on planetary coverage for a 1-term course and Includes Chapters 1-16, 28 of the main text. Other Alternate Version: Astronomy Today, Volume 2: Stars and Galaxies, Seventh Edition–Focuses primarily on stars and stellar evolution for a 1-term course.

Includes Chapters 1-5 and 16-28.

Visual Astronomy introduces the basics of observational astronomy, a fundamentally limitless opportunity to learn about the universe with your unaided eyes or with tools such as binoculars, telescopes, or cameras. The book explains the essentials of time a

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Filled with data about the Earth, Moon, the planets, the stars, our Galaxy, and the myriad galaxies in deep space, this invaluable resource reveals the latest scientific discoveries about black holes, quasars, and the origins of the Universe. It includes maps supported by detailed tables of the names, positions, magnitudes, and spectra of the main stars in each constellation along with key data on galaxies, nebulae, and clusters. MNASSA wrote, "This book fills a niche with detailed astronomical data and concise explanations, all at an accessible level it is an excellent resource, and probably will be the first book I shall reach for.

This new revision of a standard work gives a general but comprehensive introduction to positional astronomy. Useful for researchers as well as undergraduates.

The story of the people who see beyond the stars—an astronomy book for adults still spellbound by the night sky. Humans from the earliest civilizations through today have craned their necks each night, using the stars to orient themselves in the large, strange world around them. Stargazing is a pursuit that continues to fascinate us: from Copernicus to Carl Sagan, astronomers throughout history have spent their lives trying to answer the biggest questions in the universe. Now, award-winning astronomer Emily Levesque shares the stories of modern-day stargazers in this new nonfiction release, the people willing to adventure across high mountaintops and to some of the most remote corners of the planet, all in the name of science. From the lonely quiet of midnight stargazing to tall tales of wild bears loose in the observatory, The Last Stargazers is a love letter to astronomy and an affirmation of the crucial role that humans can and must play in the future of scientific discovery. In this sweeping work of narrative science, Levesque shows how astronomers in this scrappy and evolving field are going beyond the machines to infuse creativity and passion into the stars and space and inspires us all to peer skyward in pursuit of the universe's secrets.

An illustrated introduction to planets, stars, and space exploration.

Astronomy TodayBenjamin-Cummings Publishing Company

Describes outer space and the history of astronomy, including the planets of the solar system, the life of a star, the origin of constellations, and how stars are photographed.

Pearson eText gives students access to the text whenever and wherever they can access the Internet. The eText pages look exactly like the printed text, and include powerful interactive and customization functions. This does not include the actual bound book. WithAstronomy Today, Seventh Edition,trusted authors Eric Chaisson and Steve McMillan communicate their excitement about astronomy and awaken you to the universe around you. The text emphasizes critical thinking and visualization, and it focuses on the process of scientific discovery, making “how we know what we know” an integral part of the text. The revised edition has been thoroughly updated with the latest astronomical discoveries and theories, and it has been streamlined to keep you focused on the essentials and to develop an understanding of the “big picture.”Astronomy Todayis available with an interactive Pearson eText and MasteringAstronomy®—the most powerful astronomy tutorial and assessment system ever built. Alternate Versions Astronomy Today, Volume 1: The Solar System, Seventh Edition—Focuses primarily on planetary coverage for a 1-term course. Includes Chapters 1-16, 28. Astronomy Today, Volume 2: Stars and Galaxies, Seventh Edition—Focuses primarily on stars and stellar evolution for a 1-term course. Includes Chapters 1-5 and 16-28.

For courses in Introductory Astronomy. Connects introductory astronomy to a broad understanding of the universe In this Ninth Edition of Astronomy Today , authors Eric Chaisson and Steve McMillan communicate their excitement about astronomy, combining up-to-date science with insightful pedagogy. The text emphasizes visualization, focusing on the process of scientific discovery in order to teach readers “how we know what we know.” Updated features in the 9th Edition, Big Pictures and Big Questions, help readers connect the content of each chapter with a broader understanding of the universe while piquing interest in current research. New features within Mastering ™ Astronomy bring these features together and allow readers to interact with astronomy outside of the classroom. The 9th Edition has also been thoroughly updated and revised to reflect recent discoveries in the field of astronomy. Also available with Mastering Astronomy Mastering ™ Astronomy is the leading online homework, tutorial, and assessment system, designed to improve results by engaging students with powerful, interactive content. Instructors ensure students arrive ready to learn by assigning new Interactive pre-lecture videos that give students exposure to key concepts before class and open classroom time for active learning or deeper discussions of topics. With Learning Catalytics™ instructors can expand on key concepts and encourage student engagement during lecture through questions answered individually or in pairs and groups. Students further master concepts through book-specific Mastering Astronomy assignments, which provide hints and answer-specific feedback that build problem-solving skills. Mastering Astronomy now features Virtual Astronomy Labs, providing assignable online laboratory activities that use Stellarium and Interactive Figures. Note: You are purchasing a standalone product; Mastering ™ Astronomy does not come packaged with this content. Students, if interested in purchasing this title with Mastering Astronomy, ask your instructor for the correct package ISBN and Course ID. Instructors, contact your Pearson representative for more information. If you would like to purchase both the physical text and Mastering Astronomy, search for: 0321897617 / 9780321897619 Astronomy Today Plus Mastering Astronomy with eText -- Access Card Package Package consists of: 0321901673 / 9780321901675 Astronomy Today 0321909860 / 9780321909862 Mastering Astronomy with Pearson eText -- ValuePack Access Card -- for Astronomy Today

Key Message: With Astronomy Today, Sixth Edition, trusted authors Eric Chaisson and Steve McMillan communicate their excitement about astronomy and awaken readers to the universe around them. Thoroughly updated, the revised

edition focuses on the process of scientific discovery and scientific method, making “how we know what we know” a more integral part of the book with attention to clearly and concisely presenting scientific terms to the non-science reader. Key Topics: Charting The Heavens: The Foundations of Astronomy, The Copernican Revolution: The Birth of Modern Science, Radiation: Information from the Cosmos, Spectroscopy: The Inner Workings of Atoms, Telescopes: The Tools of Astronomy, The Solar System: An Introduction to Comparative Planetology, Earth: Our Home in Space, The Moon and Mercury: Scorched and Battered Worlds, Venus: Earth’s Sister Planet , Mars: A Near Miss for Life?, Jupiter: Giant of the Solar System, Saturn: Spectacular Rings and Mysterious Moons, Uranus, Neptune, and Pluto: The Outer Worlds of the Solar System, Solar System Debris: Keys to Our Origin, The Formation of Planetary Systems: The Solar System and Beyond, The Sun: Our Parent Star, Measuring the Stars: Giants, Dwarfs, and the Main Sequence, The Interstellar Medium: Gas and Dust Among the Stars, Star Formation: A Traumatic Birth, Stellar Evolution: The Life and Death of a Star, Stellar Explosions: Novae, Supernovae, and the Formation of the Elements, Neutron Stars and Black Holes: Strange States of Matter, The Milky Way Galaxy: A Spiral in Space, Galaxies: Building Blocks of the Universe, Galaxies and Dark Matter: The Large-Scale Structure of the Cosmos, Cosmology: The Big Bang and the Fate of the Universe, The Early Universe: Toward the Beginning of Time, Life In The Universe: Are We Alone? Market: Intended for those interested in learning the basics of Astronomy

Never HIGHLIGHT a Book Again! Virtually all of the testable terms, concepts, persons, places, and events from the textbook are included. Cram101 Just the FACTS101 studyguides give all of the outlines, highlights, notes, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific. Accompanys: 9780131176836 .

Covering the theory of computation, information and communications, the physical aspects of computation, and the physical limits of computers, this text is based on the notes taken by one of its editors, Tony Hey, on a lecture course on computation given b

Astronomy is written in clear non-technical language, with the occasional touch of humor and a wide range of clarifying illustrations. It has many analogies drawn from everyday life to help non-science majors appreciate, on their own terms, what our modern exploration of the universe is revealing. The book can be used for either aone-semester or two-semester introductory course (bear in mind, you can customize your version and include only those chapters or sections you will be teaching.) It is made available free of charge in electronic form (and low cost in printed form) to students around the world. If you have ever thrown up your hands in despair over the spiraling cost of astronomy textbooks, you owe your students a good look at this one. Coverage and Scope Astronomy was written, updated, and reviewed by a

broad range of astronomers and astronomy educators in a strong community effort. It is designed to meet scope and sequence requirements of introductory astronomy courses nationwide. Chapter 1: Science and the Universe: A Brief Tour Chapter 2: Observing the Sky: The Birth of Astronomy Chapter 3: Orbits and Gravity Chapter 4: Earth, Moon, and Sky Chapter 5: Radiation and Spectra Chapter 6: Astronomical Instruments Chapter 7: Other Worlds: An Introduction to the Solar System Chapter 8: Earth as a Planet Chapter 9: Cratered Worlds Chapter 10: Earthlike Planets: Venus and Mars Chapter 11: The Giant Planets Chapter 12: Rings, Moons, and Pluto Chapter 13: Comets and Asteroids: Debris of the Solar System Chapter 14: Cosmic Samples and the Origin of the Solar System Chapter 15: The Sun: A Garden-Variety Star Chapter 16: The Sun: A Nuclear Powerhouse Chapter 17: Analyzing Starlight Chapter 18: The Stars: A Celestial Census Chapter 19: Celestial Distances Chapter 20: Between the Stars: Gas and Dust in Space Chapter 21: The Birth of Stars and the Discovery of Planets outside the Solar System Chapter 22: Stars from Adolescence to Old Age Chapter 23: The Death of Stars Chapter 24: Black Holes and Curved Spacetime Chapter 25: The Milky Way Galaxy Chapter 26: Galaxies Chapter 27: Active Galaxies, Quasars, and Supermassive Black Holes Chapter 28: The Evolution and Distribution of Galaxies Chapter 29: The Big Bang Chapter 30: Life in the Universe Appendix A: How to Study for Your Introductory Astronomy Course Appendix B: Astronomy Websites, Pictures, and Apps Appendix C: Scientific Notation Appendix D: Units Used in Science Appendix E: Some Useful Constants for Astronomy Appendix F: Physical and Orbital Data for the Planets Appendix G: Selected Moons of the Planets Appendix H: Upcoming Total Eclipses Appendix I: The Nearest Stars, Brown Dwarfs, and White Dwarfs Appendix J: The Brightest Twenty Stars Appendix K: The Chemical Elements Appendix L: The Constellations Appendix M: Star Charts and Sky Event Resources

A textbook that is not written like a textbook.

This supplement contains observation and research projects authored by Steve McMillan, as well as projects for the Starry Night ProTMplanetarium software by Erin O'Connor (Santa Barbara City College).

Explore the galaxies! Aliens, space ships, and constellations, oh my! Ride on a rocket ship to another galaxy with this stellar book. With The Everything Kids' Astronomy Book, astronomers-in-training will learn: How galaxies like the Milky Way were built. Why the sun's surface is 20,000-50,000-degrees Fahrenheit. Why the earth spins and how gravity works. What comets and asteroids are made of and how they affect planets. The truth about the man in the moon. Why Mars is so hot and what those rings around Saturn are. What scientists think about aliens and life in outer space If you want to build a sky-watching kit or change your room into a small universe, this book will take you on a journey that is out-of-this-world!

0321984277 / 9780321984272 Astronomy Today Volume 1: The Solar System & MasteringAstronomy with Pearson

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How can there be one moon and many “faces”? One night it look full, the next it'll wane and the next it'll change yet again. This astronomy book for kids will explain the different phases of the moon and how each affects life on Earth. Astronomy can be your child’s new favorite subject through this book. Buy a copy today!

With Astronomy Today, Seventh Edition, trusted authors Eric Chaisson and Steve McMillan communicate their excitement about astronomy and awaken you to the universe around you. The text emphasizes critical thinking and visualization, and it focuses on the process of scientific discovery, making “how we know what we know” an integral part of the text. The revised edition has been thoroughly updated with the latest astronomical discoveries and theories, and it has been streamlined to keep you focused on the essentials and to develop an understanding of the “big picture.” Alternate Versions Astronomy Today, Volume 1: The Solar System, Seventh Edition—Focuses primarily on planetary coverage for a 1-term course. Includes Chapters 1-16, 28. Astronomy Today, Volume 2: Stars and Galaxies, Seventh Edition—Focuses primarily on stars and stellar evolution for a 1-term course. Includes Chapters 1-5 and 16-28.

Explore planets, stars, and constellations with this "out of this world" educational activity book for kids ages 5-7 Space is awesome, and we can explore a lot of it from right here on Earth using our eyes, binoculars, and telescopes. In this interactive activity book, kids ages 5-7 get to be astronomers! Former NASA scientist Aurora Lipper leads an exciting journey through space, beginning with a tour of the planets and moons in our solar system. Next, kids visit the constellations and then zoom through the far reaches of the Milky Way galaxy. Along the way, they'll find amazing facts about the starry skies and get to color and draw, connect dots, find hidden objects, and have fun with word puzzles while improving math and reading skills. Astronomy Activity Book for Kids features: - 90+ educational activities: On-page games and cool facts about space allow for fun, independent learning - Simple stargazing projects: Learn how to find the Big Dipper, view meteor showers, and more with just the eyes, binoculars, or a small telescope - Easy and exciting to read: Beautiful space illustrations and simple explanations written for early readers

The universe is an amazing declaration of the glory and power of God! Beautiful and breathtaking in its scale, the vast expanse of the universe is one that we struggle to study, understand, or even comprehend in terms of its purpose and size. Now take an incredible look at the mysteries and marvels of space in The New Astronomy Book! Discover the best ways to observe the heavens, along with up-to-date astronomical data and conceptsLearn about the dynamics of planets, stars, galaxies, and models for the cosmology of the universeWhat we know and are still trying to discover about planets,

moons, and comets within our own solar system. If you watch the stars at night, you will see how they change. This speaks to the enormity and intricacy of design in the universe. While the stars appear timeless, they instead reflect an all–powerful Creator who speaks of them in the Bible. Many ancient pagan cultures taught that the changing stars caused the seasons to change, but unlike these pagan teachings, the Book of Job gives credit to God for both changing stars and seasons (Job 38:31-33). When Job looked at Orion, he saw about what we see today, even though he may have lived as much as 4,000 years ago. Includes a 24-inch, full-color, pull-out poster!

ALERT: Before you purchase, check with your instructor or review your course syllabus to ensure that you select the correct ISBN. Several versions of Pearson's MyLab & Mastering products exist for each title, including customized versions for individual schools, and registrations are not transferable. In addition, you may need a CourseID, provided by your instructor, to register for and use Pearson's MyLab & Mastering products. Packages Access codes for Pearson's MyLab & Mastering products may not be included when purchasing or renting from companies other than Pearson; check with the seller before completing your purchase. Used or rental books If you rent or purchase a used book with an access code, the access code may have been redeemed previously and you may have to purchase a new access code. Access codes Access codes that are purchased from sellers other than Pearson carry a higher risk of being either the wrong ISBN or a previously redeemed code. Check with the seller prior to purchase. -- With Astronomy Today, Seventh Edition, trusted authors Eric Chaisson and Steve McMillan communicate their excitement about astronomy and awaken you to the universe around you. The text emphasizes critical thinking and visualization, and it focuses on the process of scientific discovery, making “how we know what we know” an integral part of the text. The revised edition has been thoroughly updated with the latest astronomical discoveries and theories, and it has been streamlined to keep you focused on the essentials and to develop an understanding of the “big picture.” Astronomy Today is available with an interactive Pearson eText and MasteringAstronomy®—the most powerful astronomy tutorial and assessment system ever built. Alternate Versions Astronomy Today, Volume 1: The Solar System, Seventh Edition—Focuses primarily on planetary coverage for a 1-term course. Includes Chapters 1-16, 28. Astronomy Today, Volume 2: Stars and Galaxies, Seventh Edition—Focuses primarily on stars and stellar evolution for a 1-term course. Includes Chapters 1-5 and 16-28. Package Components: MasteringAstronomy with Pearson eText Student Access Code Card Astronomy Today, Seventh Edition NOTE: You are purchasing a standalone product; MasteringAstronomy does not come packaged with this content. If you would like to purchase both the physical text and MasteringAstronomysearch for 0321792998 / 9780321792990 Astronomy: The Universe at a Glance Plus MasteringAstronomy with eText -- Access Card Package, 1/e: Package consists of: 0321799763 / 9780321799760 Astronomy: The Universe at a Glance, 1/e 0321977432 / 9780321977434

MasteringAstronomy with Pearson eText -- ValuePack Access Card -- for Astronomy: The Universe at a Glance, 1/e MasteringAstronomyshould only be purchased when required by an instructor. A modular and highly visual approach to introductory astronomy Astronomy: The Universe at a Glance takes students on a spectacular journey across the vast cosmos. The Universe at a Glance introduces the structure and nature of the universe while emphasizing both the latest scientific findings and the process of scientific discovery. This new book by trusted authors Eric Chaisson and Steve McMillan reimagines their classic texts in a modularly organized, visual approach to learning. Here, the essential ideas, concepts, and discoveries of contemporary astronomy are presented in 15 chapters, each chapter composed of richly illustrated, two-page spreads designed to visually engage and instruct students. Complete with spectacular graphics and concise, compelling chapters, The Universe at a Glance packs an immense amount of awe-inspiring insights into a brief modular volume. Uniting engaging prose, fascinating details, and easy-to-follow Learning Outcomes, this accessible account of astronomy is flexible and fun, an ideal complement to a dynamic introductory course. The text is integrated with MasteringAstronomy to create an unrivalled learning suite for students and instructors. Also Available with MasteringAstronomy® This title is also available with MasteringAstronomy - an online homework, tutorial, and assessment program designed to work with this text to engage students and improve results. Interactive, self-paced tutorials provide individualized coaching to help students stay on track. With a wide range of activities available, students can actively learn, understand, and retain even the most difficult concepts. Students, if interested in purchasing this title with MasteringAstronomy, ask your instructor for the correct package ISBN and Course ID. Instructors, contact your Pearson representative for more information.

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An authoritative guide packed with practical tips for all types and levels of observations in amateur astronomy.

This edition features the exact same content as the traditional text in a convenient, three-hole- punched, loose-leaf version. Books à la Carte also offer a great value—this format costs 35% less than a new textbook. With Astronomy Today, Seventh Edition, trusted authors Eric Chaisson and Steve McMillan communicate their excitement about astronomy and awaken you to the universe around you The text emphasizes critical thinking and visualization, and it focuses on the process of scientific discovery, making “how we know what we know” an integral part of the text. The revised edition has been thoroughly updated with the latest astronomical discoveries and theories, and it has been streamlined to keep you focused on the essentials and to develop an understanding of the “big picture.” Alternate Versions Astronomy Today, Volume 1: The Solar System, Seventh Edition—Focuses primarily on planetary coverage for a 1-term course. Includes Chapters 1-16, 28. Astronomy Today, Volume 2: Stars and Galaxies, Seventh Edition—Focuses primarily on stars and stellar evolution for a 1-term course. Includes Chapters 1-5 and 16-28.

A treasury of 125 archival articles covers more than a century of scientific breakthroughs, setbacks and mysteries and includes pieces by Pulitzer Prize-winning writers, includes Malcolm W. Browne on antimatter, James Glanz on string theory and George Johnson on quantum physics.

With Astronomy Today, Eighth Edition, trusted authors Eric Chaisson and Steve McMillan communicate their excitement about astronomy, delivering current and thorough science with insightful pedagogy. The text emphasizes critical thinking and visualization, and it focuses on the process of scientific discovery, teaching students how we know what we know. Alternate Versions *Astronomy Today, Volume 1: The Solar System, Eighth Edition-Focuses primarily on planetary coverage for a 1-term course. Includes Chapters 1-16, 28. *Astronomy Today, Volume 2: Stars and Galaxies, Eighth Edition-Focuses primarily on stars and stellar evolution for a 1-term course. Includes Chapters 1-5 and 16-28.

Astronomy is a popular subject for non-science majors in the United States, often representing a last formal exposure to science. Nationwide, more than half of all college students take at least one class online each year. In addition, there has been a rapid growth in Massive Open Online Classes (MOOCs), where adult learners take an online class for enrichment rather than for credit towards a degree. For both formal and informal learners, online course delivery is becoming increasingly important, and the resources for instructors have not kept up with this rapid change. This book aims to fill that need, with advice on all the tools and resources that are suitable for online classes. The book's purpose is to bring astronomy instructors up to speed on the best ways to create and teach an online astronomy class, for traditional college students and for distributed audiences of lifelong learners. Instructors of these courses will see articles on the online use of real and virtual telescopes, simulations and applets, and tools that adapt to the learner. Each chapter is written by an academic who is adept in teaching online classes to diverse audiences.

Captivating retellings of the origins and histories of ancient star groups include Pegasus, Ursa Major, Pleiades, signs of the zodiac, and other constellations. "Classic." — Sky & Telescope. 58 illustrations.

Advance praise for Philip Plait s Bad Astronomy "Bad Astronomy is just plain good! Philip Plait clears up everymisconception on astronomy and space you never knew you sufferedfrom." --Stephen Maran, Author of Astronomy for Dummies and editorof The Astronomy and Astrophysics Encyclopedia "Thank the cosmos for the bundle of star stuff named Philip Plait,who is the world s leading consumer advocate for quality science inspace and on Earth. This important contribution to science willrest firmly on my reference library shelf, ready for easy

accessthe next time an astrologer calls." --Dr. Michael Shermer,Publisher of Skeptic magazine, monthly columnist for ScientificAmerican, and author of The Borderlands of Science "Philip Plait has given us a readable, erudite, informative,useful, and entertaining book. Bad Astronomy is Good Science. Verygood science..." --James "The Amazing" Randi, President, JamesRandi Educational Foundation, and author of An Encyclopedia ofClaims, Frauds, and Hoaxes of the Occult and Supernatural "Bad Astronomy is a fun read. Plait is wonderfully witty andeducational as he debunks the myths, legends, and 'conspiraciesthat abound in our society. 'The Truth Is Out There' and it's inthis book. I loved it!" --Mike Mullane, Space Shuttle astronaut andauthor of Do Your Ears Pop in Space?