

## Chaisson Astronomy Beginners Guide Universe

Created through a student-tested, faculty-approved review process, ASTRO is an engaging and accessible solution to accommodate the diverse lifestyles of today's learners. 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. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This is an overview of the universe, from our closest planetary neighbours to stars, galaxies and black holes many millions of light years away from Earth. Readers can use the clear detailed maps of the stars to navigate the night sky.

This straightforward volume presents a broad view of astronomy spanning known facts, evolving ideas, and frontier discoveries. The authors combine qualitative reasoning and analogies with familiar objects and phenomena to awaken readers to the excitement of the universe around them. Incorporates new understanding and emphases in contemporary astronomy, including the latest data on topics ranging from adaptive optics and solar system formation to extrasolar planets and the recent missions to Mars. Top-notch illustration program exploits the full range of the electromagnetic spectrum, including images taken at radio, infrared, ultraviolet, X-ray, or gamma-ray wavelengths, in addition to visible-light photographs. For anyone interested in learning

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more about astronomy.

For one-semester Introduction to Astronomy courses. With the Eighth Edition of *Astronomy: A Beginner's Guide*, trusted authors Eric Chaisson and Steve McMillan bring a renewed freshness and analysis to recent changes in our understanding of the cosmos. As with the other two books in their Astronomy suite (one for two-semester courses and the other, a brief visual book), the authors continue to emphasize three major themes: the process of science, the size and scale of the universe, and the evolution of the cosmos. This new edition ignites reader interest with new discoveries from the latest space missions and a new focus on reader-oriented engagement. Also available as a Pearson eText or packaged with Mastering Astronomy Pearson eText is a simple-to-use, mobile-optimized, personalized reading experience that can be adopted on its own as the main course material. It lets students highlight, take notes, and review key vocabulary all in one place, even when offline. Seamlessly integrated videos and other rich media engage students and give them access to the help they need, when they need it. Educators can easily share their own notes with students so they see the connection between their eText and what they learn in class — motivating them to keep reading, and keep learning. Mastering combines trusted author content with digital tools and a flexible platform to personalize the learning experience and improve results for each student. Built for, and directly tied to the text, Mastering Astronomy enables an extension of learning, allowing students a platform to practice,

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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

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Astronomy is a science that thrives on new discoveries. Fueled by new technologies and novel theoretical insights, the study of the cosmos continues to change our understanding of the universe. We are pleased to have the opportunity to present in this book a representative sample of the known facts, evolving ideas, and frontier discoveries in astronomy today. Astronomy Today has been written for students who have taken no previous college science courses and who will likely not major in physics or astronomy. It is intended for use in a one- or two-semester, non-technical astronomy course. We present a broad view of astronomy, straightforwardly descriptive and without complex mathematics. The absence of sophisticated mathematics, however, in no way prevents discussion of important concepts. Rather, we rely on qualitative reasoning as well as analogies with objects and phenomena familiar to the student to explain the complexities of the subject without oversimplification. We have tried to communicate the excitement we feel about astronomy and to awaken students to the

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marvelous universe around us. Many of you—teachers and students alike—have given us helpful feedback and constructive criticism on earlier editions. From these, we have learned to communicate better both the fundamentals and the excitement of astronomy. Many improvements inspired by your comments have been incorporated into this new edition.

**Focus of the Fifth Edition** From the first edition, we have tried to meet the challenge of writing a book that is both accurate and approachable. To the student, astronomy sometimes seems like a long list of unfamiliar terms to be memorized and repeated. You will indeed be introduced to many new terms and concepts in this course, but we hope you will also learn and remember how science is done, how the universe works, and how things are connected. In the fifth edition, we have taken particular care to try to show how astronomers know what they know, and to highlight both the scientific principles underlying their work and the process used in discovery.

**New and Revised Material** Astronomy is a rapidly evolving field, and the three years since the publication of the fourth edition of *Astronomy Today* have seen many new discoveries covering the entire spectrum of astronomical research. Almost every chapter in the fifth edition has been substantially updated with new information. Several chapters have also seen significant internal reorganization in order to streamline the overall presentation, strengthen our focus on the process of science, and reflect new understanding and emphases in contemporary astronomy. Among the many changes are: Expanded coverage throughout of the scientific method and how astronomers

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"know what they know." New part-opening essays to establish historical context for each section of the text. Updated material in Chapter 5 on adaptive optics, Keck, Subaru, Gemini, and the VLT; additional material on infrared and optical interferometry; new coverage of the Chandra and Spitzer missions. An introduction to solar-system formation in Chapter 6, to better frame the discussion of planetary properties that follows. New material in Chapter 7 on the Ozone Hole and Global Warming. Expanded coverage in Chapters 6 and 10 of the most recent missions to Mars. Updates in Chapter 10 on Martian oppositions, gullies, oceans, and ice. Final update on the Galileo/GEM mission in Chapter 11. Coverage of Stardust, new Kuiper belt objects, and Pluto's status as a planet in Chapter 14. Updated discussion of solar system formation in Chapter 15; expanded coverage of competing theories, planet migration, planetesimal ejection, plutinos, and the angular momentum problem. New sections in Chapter 15 on extrasolar planets, with updated material on the latest observations and their implications for the condensation theory of solar system formation. Reorganization of presentation in Chapter 16, and an update on neutrino oscillations. New information on star names and revised coverage of key concepts in Chapter 17. Consistent and up-to-date stellar properties in Examples throughout Part 3. Updated information in Chapter 19 on brown dwarfs; new material on competitive accretion and collisions in star formation. New coverage in Chapter 20 of the end-states of stellar and binary evolution; more examples of familiar stars in specific evolutionary stages. Updated

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coverage of pulsars and gamma-ray bursts in Chapter 22. Reorganized and expanded material in Chapter 22 on Special and General Relativity and their historical development. Latest results in Chapter 23 on Sgr A\* and the Galaxy's central black hole. Reorganization of Chapters 24 and 25, updating all coverage, emphasizing the connection between normal and active galaxies, and expanding the discussion of black holes in galactic nuclei. Updated discussion in Chapter 24 of the measurement of Hubble's constant. Expanded and substantially revised coverage in Chapter 25 of galaxy collisions, hierarchical merging and galaxy evolution; revised discussion of active galaxy evolution. Consistent distances and times in Chapters 24-27, assuming a flat universe with dark matter and dark energy as determined by the WMAP satellite; incorporation of results from recent sky surveys. Extensive revision of Chapters 26 and 27 to include the most recent observations of cosmic acceleration and discussion of "dark energy." Revised discussions of the cosmological constant and the age of the universe; results from the CBI and 97AMP experiments suggesting a flat universe. Updated coverage of Europa, Mars, interstellar organic molecules, extrasolar planets, and SETI in Chapter 28. Expanded Glossary which now includes many additional terms used in the text, but not identified explicitly as keywords. New detailed Seasonal Star Charts, courtesy of Astronomy Magazine. Compound Art. It is rare that a single image, be it a photograph or an artist's conception, can capture all aspects of a complex subject. Wherever possible, multiple-part figures are used in an attempt to convey the greatest



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amount of information in the most vivid way: Visible images are often presented along with their counterparts captured at other wavelengths. Interpretive line drawings are often superimposed on or juxtaposed with real astronomical photographs, helping students to really "see" what the photographs reveal. Breakouts—often multiple ones—are used to zoom in from widefield shots to closeups so that detailed images can be understood in their larger context. The Illustration Program Visualization plays an important role in both the teaching and the practice of astronomy, and we continue to place strong emphasis on this aspect of our book. We have tried to combine aesthetic beauty with scientific accuracy in the artist's conceptions that adorn the text, and we have sought to present the best and latest imagery of a wide range of cosmic objects. Each illustration has been carefully crafted to enhance student learning; each is pedagogically sound and tied tightly to the nearby discussion of important scientific facts and ideas. Full Spectrum Coverage and Spectrum Icons. Astronomers exploit the full range of the electromagnetic spectrum to gather information about the cosmos. Throughout this book, images taken at radio, infrared, ultraviolet, X-ray, or gamma-ray wavelengths are used to supplement visible-light images. As it is sometimes difficult (even for a professional) to tell at a glance which images are visible-light photographs and which are false-color images created with other wavelengths, each photo in the text is provided with an icon that identifies the wavelength of electromagnetic radiation used to capture the image and reinforces the connection between wavelength and radiation

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properties. Explanatory Captions. Students often review a chapter by "looking at the pictures." For this reason, the captions in this book are often a bit longer and more detailed than those in other texts. H-R Diagrams and Acetate Overlays. All of the book's H-R diagrams are drawn in a uniform format, using real data. In addition, a unique set of transparent acetate overlays dramatically demonstrates to students how the H-R diagram helps us to organize our information about the stars and track their evolutionary histories. Other Pedagogical Features As with many other parts of our text, instructors have helped guide us toward what is most helpful for effective student learning. With their assistance, we have revised both our in-chapter and end-of-chapter pedagogical apparatus to increase its utility to students. Learning Goals. Studies indicate that beginning students have trouble prioritizing textual material. For this reason, a few (typically 5 or 6) well-defined Learning Goals are provided at the start of each chapter. These help students structure their reading of the chapter and then test their mastery of key facts and concepts. The Goals are numbered and cross-referenced to key sections in the body of each chapter. This in-text highlighting of the most important aspects of the chapter also helps students review. The Goals are organized and phrased in such a way as to make them objectively testable, affording students a means of gauging their own progress. Concept Links. In astronomy, as in many scientific disciplines, almost every topic seems to have some bearing on almost every other. In particular, the connection between the astronomical material and the physical

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principles set forth early in the text is crucial. Practically everything in Chapters 6-28 of this text rests on the foundation laid in the first five chapters. For example, it is important that students, when they encounter the discussion of high-redshift objects in Chapter 25, recall not only what they just learned about Hubble's law in Chapter 24 but also refresh their memories, if necessary, about the inversesquare law (Chapter 17), stellar spectra (Chapter 4), and the Doppler shift (Chapter 3). Similarly, the discussions of the mass of binary-star components (Chapter 17) and of galactic rotation (Chapter 23) both depend on the discussion of Kepler's and Newton's laws in Chapter 2. Throughout, discussions of new astronomical objects and concepts rely heavily on comparison with topics introduced earlier in the text. We remind you of these links so you can recall the principles on which later discussions rest and, if necessary, review them. To this end, we have inserted "Concept Links" throughout the text—symbols that mark key intellectual bridges between material in different chapters. The links, denoted by the symbol together with a section reference, signal that the topic under discussion is related in some significant way to ideas developed earlier, and provide direction to material to review before proceeding. **Key Terms.** Like all subjects, astronomy has its own specialized vocabulary. To aid learning, the most important astronomical terms are boldfaced at their first appearance in the text. Each boldfaced Key Term is also incorporated in the appropriate chapter summary, together with the page number where it was defined. In addition, an expanded alphabetical glossary, defining each Key Term

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and locating its first use in the text, appears at the end of the book. Concept Checks. We incorporate into each chapter a number of "Concept Checks"-key questions that require the reader to reconsider some of the material just presented or attempt to place it into a broader context. Answers to these in-chapter questions are provided at the back of the book. End of Chapter Questions and Problems. Many elements of the end-of-chapter material have seen substantial reorganization: Each chapter now incorporates 20 Conceptual Self-Test Questions, equally divided between "true/false" and multiple choice formats, allowing students to assess their understanding of the chapter material. Answers to questions appear at the end of the book. Each chapter also has 20 Review and Discussion Questions, which may be used for in-class review or for assignment. As with the Self-Test Questions, the material needed to answer Review Questions maybe found within the chapter. The Discussion Questions explore particular topics more deeply, often asking for opinions, not lust facts. As with all discussions, these questions usually have no single "correct" answer. The end of chapter material includes 15 Problems, based on the chapter contents and entailing some numerical calculation. In many cases the problems are tied directly to quantitative statements made (but not worked out in detail) in the text. The solutions to the Problems are not contained verbatim within the chapter, but the information necessary to solve them has been presented in the text. Answers to odd-numbered Problems appear at the end of the book. Discovery Boxes. Exploring a wide variety of interesting

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supplementary topics, these features have been expanded and provide the reader with insight into how scientific knowledge evolves, and emphasizing our theme of the process of science. More Precisely Boxes. These provide more quantitative treatments of subjects discussed qualitatively in the text. Removing these more challenging topics from the main flow of the narrative and placing them within a separate modular element of the chapter design (so that they can be covered in class, assigned as supplementary material, or simply left as optional reading for those students who find them of interest) will allow instructors greater flexibility in setting the level of their coverage. Interactive eBook. The Astronomy Today, Fifth Edition interactive eBook is located in the WebCT, BlackBoard, and OneKey courses and has been redesigned for easier and clearer navigation. It contains a full electronic version of the text, with key term hyperlinks and imbedded media elements at point of use. The eBook features: New! Tutorials: Written by Philip Langill (University of Calgary). These animated, interactive Flash™ files, denoted by an icon in the text, allow students to explore the ideas and concepts from the text in depth. Students are engaged in the thought process as they answer questions and change parameters in these exploratory activities. New! Physlet(tm) Illustrations for Astronomy: Written by Chuck Niederriter and Steve Mellema (both of Gustavus Adolphus College); Physlets by Wolfgang Christian (Davidson College). Through animation, these brief Java applets, denoted by an icon in the text, further illustrate concepts from the text. Each Physlet is followed by a series of

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questions that encourage students to think critically about the concept at hand. 61 narrated videos and animations imbedded within the text, at point of use. These help to bring text figures and concepts to life. All bold key terms in the text are hyperlinked to a glossary definition and an audio pronunciation. Student Accelerator CD-ROM. The Student Accelerator CD-ROM that is packaged with Astronomy Today, Fifth Edition contains the Tutorials, Physlet(tm) Illustrations, animations, and videos from the eBook. The CD accelerates the performance of the eBook when students download the high-bandwidth media, so that students are not restricted by slow connections. It can also be used apart from the eBook if a student doesn't have a live Internet connection or just wants to view the media elements. Companion Website. (<http://astro.prenhall.com/chaisson>) The text-specific Companion Website for Astronomy Today, Fifth Edition organizes material from a variety of sources on the web on a chapter-by-chapter basis, is updated regularly, and provides interactive exercises for each chapter. It includes: Annotated images, videos, and animations that are regularly updated to reflect the most recent astronomical discoveries. Interactive multiple-choice quizzes with hints and instant feedback. Algorithmically generated versions of the end-of-chapter problems from the text. Links to associated websites that are regularly updated for currency and relevancy. 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

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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

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An introduction to Einstein's theory of relativity for nonscientists, this book takes into consideration many of the interesting possibilities that the theory suggests

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Feel at home among the stars with this acclaimed astronomy self-teaching guide . . . "A lively, up-to-date account of the basic principles of astronomy and exciting current fields of research."-Science Digest "One of the best ways by which one can be introduced to the wonders of astronomy."-The Strolling Astronomer "Excellent . . . provides stimulating reading and actively involves the reader in astronomy."-The Reflector From stars, planets, and galaxies to the mysteries of black holes, the Big Bang, and the possibility of life on other planets, this new edition of *Astronomy: A Self-Teaching Guide* brings the fascinating night sky to life for every student and amateur stargazer. With a unique self-teaching format, *Astronomy* clearly explains the essentials covered in an introductory college-level course. Written by an award-winning author, this practical guide offers beginners an easy way to quickly grasp the basic principles of astronomy. To help you further appreciate the wonders of the cosmos, this book also includes: Star and Moon maps that identify objects in the sky Objectives, reviews, and self-tests that monitor your progress Simple activities that help you to test basic principles at your own pace Updated with the latest discoveries, new photographs, and references to the best astronomy Web sites, this newest edition of *Astronomy* imparts an extraordinary appreciation of the elegant beauty of the universe. Over 2 Million Wiley Self-Teaching Guides in Print

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Plain-language explanations and a rich set of supporting material help students understand the mathematical concepts and techniques of astronomy.

Explores the universe and its elements, including our solar system, stars, and galaxies, and answers questions about the Sun, what happens inside a black hole, and space exploration. This edition features the exact same content as the traditional text in a convenient, three-hole-punched, loose-leaf version. Books a la Carte also offer a great value for your students—this format costs 35% less than a new textbook. With *Astronomy: A Beginner's Guide, Seventh Edition*, the briefer version of their two seminal textbooks, trusted authors Eric Chaisson and Steve McMillan continue to emphasize three major themes: the process of science, the size and scale of the universe, and the evolution of the cosmos. In the Seventh Edition, Chaisson and McMillan ignite your interest with increased coverage of the most exciting, current discoveries in astronomy and create a bridge to scientific understanding with student-friendly art and enhanced pedagogy.

This package contains the following components: -0321598768: *Astronomy: A Beginner's Guide to the Universe with MasteringAstronomy* -0132392267: *Lecture Tutorials for Introductory Astronomy*

Cosmology is the study of the origin, size, and evolution of the entire universe. Every culture has developed a cosmology, whether it be based on religious, philosophical, or scientific principles. In this book, the evolution of the scientific understanding of the Universe in Western tradition is traced from the early Greek philosophers to the most modern 21st century view. After a brief introduction to the concept of the scientific method, the first part of the book describes the way in which detailed observations of the Universe, first with the naked eye and

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later with increasingly complex modern instruments, ultimately led to the development of the "Big Bang" theory. The second part of the book traces the evolution of the Big Bang including the very recent observation that the expansion of the Universe is itself accelerating with time. Never HIGHLIGHT a Book Again Virtually all testable terms, concepts, persons, places, and events are included. Cram101 Textbook Outlines gives all of the outlines, highlights, notes for your textbook with optional online practice tests. Only Cram101 Outlines are Textbook Specific. Cram101 is NOT the Textbook. Accompanys: 9780521673761

Computer Architecture/Software Engineering

Chaisson addresses some of the most basic issues we can contemplate: the origin of matter and the origin of life, and the ways matter, life, and radiation interact and change with time. He designs for us an expansive yet intricate model depicting the origin and evolution of all material structures.

Designed with large images and distraction-free layouts to increase the impact of Hubble's imagery, this book gives the reader a guided tour of the cosmos through the eyes of the Hubble Space Telescope. Before Hubble was launched in 1990, no exoplanet had ever been observed, dark energy was unknown, the age of the universe was a mystery, and the most distant objects observed were just halfway back in time to the Big Bang. Hubble has been the centerpiece in a revolution in astronomy, as well as giving the public a visceral connection to the Universe through its stunning images. The images that have been selected here explore key themes in recent astronomy, including planetary science, cosmology and stellar evolution, explaining Hubble's contributions to our understanding of the universe. Hubble's unique images – some never published before – are presented together with a mix of cutting-edge

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science that highlights the key discoveries of the past few years and how they fit into Hubble's growing list of scientific achievements. It is an unforgettable view of our amazing universe. Never HIGHLIGHT a Book Again! Includes all testable terms, concepts, persons, places, and events. Cram101 Just the FACTS101 studyguides gives all of the outlines, highlights, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific. Accompanies: 9780321814913. This item is printed on demand.

The sun, moon, stars, and planets have been a source of wonder for as long as humans have lived on earth. In this highly visual guide to observing the sky with the naked eye, kids aged 9–14 will delve into the science behind what they see. This captivating book offers a tour of our solar system and deep space, explaining how objects like Earth's moon were formed and introducing the “why” behind phenomena such as eclipses, northern lights, and meteor showers. Sky gazers will learn how to find and observe planets — no binoculars or telescopes required — and star charts will show them how to spot constellations through the seasons and in both hemispheres. Activities include tracking the cycles of the sun and moon and observing the sky during daylight hours or on a cloudy night. Includes profiles of professional astronomers and sidebars on space technology and current issues, such as light pollution. This publication conforms to the EPUB Accessibility specification at WCAG 2.0 Level AA.

For one-semester Introduction to Astronomy courses. With *Astronomy: A Beginner's Guide, Seventh Edition*, the briefer version of their two seminal textbooks, trusted authors Eric Chaisson and Steve McMillan continue to emphasize three major themes: the process of science, the size and scale of the universe, and the evolution of the cosmos. In the *Seventh Edition*, Chaisson and McMillan ignite your interest with increased coverage of the most

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exciting, current discoveries in astronomy and create a bridge to scientific understanding with student-friendly art and better learning tools.

For as long as there have been people, men and women have looked up into the night sky and wondered about the nature of the cosmos. Without the benefit of science to provide answers, they relied on myth and superstition to help them make sense of what they saw. Lucky for us, we live at a time when regular folks, equipped with nothing more than their naked eyes, can look up into the night sky and gain admittance to infinite wonders. If you know what to look for, you can make out planets, stars, galaxies, and even galactic clusters comprising hundreds of millions of stars and spanning millions of light-years. Astronomy For Dummies tells you what you need to know to make sense of the world above us. Written by one of the most well-known astronomers in the world, this fun, fact-filled, and accessible guide fills you in on the basic principles of astronomy and tells you how to: Identify planets and stars Explore our solar system, the Milky Way, and beyond Understand the Big Bang, quasars, antimatter, black holes, and more Join the Search for Extraterrestrial Intelligence (SETI) Get the most out of planetarium visits Make more sense out of space missions From asteroids to black holes, quasars to white dwarfs, Astronomy For Dummies takes you on a grand tour of the universe. Featuring star maps, charts, gorgeous full-color photographs, and easy-to-follow explanations it gives you a leg up on the basic science of the universe. Topics covered include: Observing the night sky, with and without optics Selecting binoculars and telescopes and positioning yourself for the best view Meteors, comets, and man-made moons Touring our solar system and becoming familiar with the planets, asteroids, and near Earth objects Our Sun, stars, galaxies, black holes and quasars SETI and planets revolving around other suns Dark matter

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and antimatter The Big Bang and the evolutions of the universe You might think the cosmos is a vast and mysterious place, but *Astronomy For Dummies* will make it seem as friendly and familiar as your own backyard.

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This fully revised and updated text is a comprehensive introduction to astronomical objects and phenomena. By applying some basic physical principles to a variety of situations, students will learn how to relate everyday physics to the astronomical world. Starting with the simplest objects, the text contains explanations of how and why astronomical phenomena occur, and how astronomers collect and interpret information about stars, galaxies and the solar system. The text looks at the properties of stars, star formation and evolution; neutron stars and black holes; the nature of galaxies; and the structure of the universe. It examines the past, present and future states of the universe; and final chapters use the concepts that have been developed to study the solar system, its formation; the possibility of finding other planetary systems; and the search for extraterrestrial life. This comprehensive text contains useful equations, chapter summaries, worked examples and end-of-chapter problem sets.

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

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