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Essential cosmic perspective 8th edition pdf

NOTE: This edition has the same content as traditional text in a convenient, three-hole, free-leaved version. Books a la Carte also offer great value; this format costs significantly less than a new manual. Before you purchase, consult your instructor or review the course schedule to make sure you select the correct ISBN. There are several versions of MyLab(tm) and Mastering(tm) platforms for each title, including custom versions for individual schools, and the records are not transferable. In addition, you may need a course ID provided by your instructor to register and use MyLab and Mastering products. For one-semester courses in astronomy. This package includes Mastering Astronomy. A practical introduction to Astronomy, with a focus on critical thinking about our place in the universe This 8th edition of the Cosmic Essential Perspective offers non-science majors with a simplified, cutting-edge introduction to astronomy. Built on a strong tradition of effective pedagogy and coverage, the text focuses on student building skill and includes group work exercises that require active participation. Dedicated to bringing an understanding of the universe, its scientific basis and its relevance to our lives, each chapter is written for specific learning goals that build an ideal learning path for students. In order to promote a lifelong learning experience, the authors focus on key concepts, providing overall context, promoting conceptual understanding, and preferring simple language to jargon. The 8th edition incorporates the latest scientific updates in the field of astronomy and includes new features that strengthen critical thinking and excite students' curiosity. New features, would be extraordinary requests employ students by presenting extraordinary claims about the universe and how they were either supported or debunked as scientists collected more evidence, strengthening the science process and how scientists think critical to evaluate them. My cosmic perspective establishes a personal connection between students and the cosmos as they learn to think critically about the meaning of what they learn in their astronomy course and beyond. Designed and written for a one-semester course, this text shares many of the strengths of its brother's most comprehensive best-seller, The Cosmic Perspective. Customize learning with Mastering Astronomy Mastering(tm) Astronomy is the leading online system of themes, tutorials and evaluations, designed to improve results by engaging students with verified, interactive content. Instructors ensure that students are prepared to learn by assigning new interactive lesson videos that provide students with exposure to key concepts before hours and open time for active learning or deeper discussions about topics. With Learning Catalysts (tm) instructors can expand on key concepts and encourage student involvement during the course through individual answer questions or in pairs and groups. Groups, other mastering concepts through missions specific to Mastering Astronomy, which provide feedback specific to the answer that build problem-solving skills. Mastering Astronomy now features Virtual Astronomy Labs, offering attributable online lab activities that use Stellarium and Interactive Figures. 0134566238 / 9780134566238 Essential Cosmic Perspective, The Books a la Carte Plus Mastering Astronomy with Pearson eText -- The access card package consists of: 0134509293 / 9780134509297 Mastering Astronomy with Pearson eText -- ValuePack Access Card -- for Essential Cosmic Perspectives. 0134532457 / 9780134532455 Essential Perspective, The Books a la Carte Edition About the Author: Jeffrey Bennett owns a B.A. (1981) in biophysics at the University of California, San Diego, and an M.S. and Ph.D. (1987) in astrophysics at the University of Colorado Boulder. He taught at every level from kindergarten to graduate school, including more than 50 college classes in astronomy, physics, mathematics, and education. He served for two years as a senior scientist visiting NASA headquarters, where he created the NASA IDEAS program, began a program to fly teachers aboard NASA's airborne observatories (including the recently released SOFIA observatory), and has worked on numerous educational programs for the Hubble Space Telescope and other space science missions. He also proposed the idea for and helped develop both the Colorado State Model Solar System on the CU-Boulder campus and the Voyage Scale Model Solar System on the National Mall in Washington, DC (He is illustrated here with the Sun model.) In addition to this astronomy textbook, he wrote textbooks at college level in astrobiology, mathematics and statistics; two books for the general public, On the Cosmic Horizon (Pearson Addison-Wesley, 2001) and Beyond UFOs (Princeton University Press, 2008); and an award-winning series of children's books that includes Max Goes to the Moon, Max Goes to Mars, Max Goes to Jupiter and Max's Ice Age Adventure. When he's not working, he likes to participate in master swimming and the daily adventures of life with his wife, Lisa; his children, Grant and Brooke; and his dog, Cosmo. His personal website is www.jeffreybennett.com. Megan Donahue is a professor in the Department of Physics and Astronomy at Michigan State University and president of the American Astronomical Society. Her current research mainly refers to clusters of galaxies: their content- dark matter, hot gas, galaxies, active galactic nuclei-- and what it reveals about the content of the universe and how galaxies form and evolve. She grew up on a farm in Nebraska and received a physics assistant from MIT, where she began her career as an X-ray astronomer, intergalactic and intracluster. This thesis won the Trumpler Award in 1993 from Astronomical Astronomical for the Pacific for a remarkable Ph.D. dissertation in astrophysics in North America. She continued her postdoctoral research into optical and X-ray observations as a Carnegie Fellow at Carnegie Observers in Pasadena, California, and later as a fellow of the STScI Institute at the Space Telescope. Megan was an astronomer at the Space Telescope Science Institute until 2003, when she joined MSU. Megan is married to Mark Voit, and collaborates on many projects, including this manual and raising their children, Michaela, Sebastian and Angela. Between the births of Sebastian and Angela, Megan qualified and ran the Boston Marathon. These days, Megan runs, orienteers, and plays piano and bass guitar whenever her kids allow it. Nicholas Schneider is an associate professor in the Department of Astrophysics and Planetary Sciences at the University of Colorado and a researcher in the Laboratory of Atmospheric and Space Physics. He received a Ph.D. in physics and astronomy from Dartmouth College in 1979 and a Doctorate in Planetary Sciences from the University of Arizona in 1988. In 1991, he received the National Foundation for Science's Young Investigators Award for Young Presidential Investigators. His research interests include planetary atmospheres and planetary astronomy, with an emphasis on the strange case of Jupiter to's moon. He enjoys teaching at all levels and is active in efforts to improve his undergraduate astronomy education. Off-duty, he likes to explore the outdoors with his family and figure things out. Mark Voit is a professor in the Department of Physics and Astronomy at Michigan State University. He earned his Ph.D. in astrophysics at Princeton University and ph.t. in astrophysics from the University of Colorado in 1990. He continued his studies at the California Institute of Technology, where he was a researcher in theoretical astrophysics, and then moved to Johns Hopkins University as a member of Hubble. Before going to the state of Michigan, Mark worked in the Public Information Office at the Space Telescope, where he developed museum exhibitions about the Hubble Space Telescope and was the scientist behind NASA's Hubble site. Its research interests range from interstellar processes in our galaxy to grouping galaxies in the early universe. He is married to and co-author Megan Donahue, and they try to play outdoors with their three children whenever possible, enjoying hiking, camping, running, and orientation. Mark is also the author of the popular book Hubble Space Telescope: New Views of the Universe. This title may belong to another edition of this title. For one-semester courses in astronomy. This package includes Mastering Astronomy. A Practical Introduction to Astronomy, with a focus on critical thinking about our place in the universe This 8th edition of the Cosmic Essential Perspective major introduction with a simplified, cutting-edge introduction to astronomy. Built on a strong tradition of pedagogy and coverage, the text focuses on the development of students' skills and includes group work exercises that require active participation. Dedicated to bringing an understanding of the universe, its scientific basis and its relevance to our lives, each chapter is written for specific learning goals that build an ideal learning path for students. 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Customize learning with Mastering Astronomy Mastering(tm) Astronomy is the leading online home themes system, tutorial and evaluation, designed to improve results by engaging students with verified, interactive content. Instructors ensure that students are prepared to learn by assigning new interactive lesson videos that provide students with exposure to key concepts before classes start and open time for active learning or deeper discussions about topics. With Learning Catalysts (tm) instructors can expand on key concepts and encourage student involvement during the course through individual questions or in pairs and groups. Students also master concepts through book-specific astronomy mastering missions, which provide suggestions and feedback specific to responses that build problem-solving skills. Mastering Astronomy now features Virtual Astronomy Labs, offering attributable online lab activities that use Stellarium and Interactive Figures. Essential Cosmic Perspective, the 8th edition is also available through Pearson eText, a simple, mobile and personalized reading experience that allows instructors to connect with students and motivate -- even in eTextbook. learn more. This product is part of the next series. Click a serial title to see the full list of products in the series. Customize learning with Mastering Mastering(tm) Astronomy is the leading online themes, tutorial, and evaluation system, designed to improve results by engaging students with verified, interactive content. Instructors ensure that students are prepared to learn by assigning new interactive lesson videos that provide students with exposure to before class and open time in the classroom for active learning or deeper discussion/ topics. With Learning Catalysts (tm) instructors can expand on key concepts and encourage student involvement during the course through individual questions or in pairs and groups. 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Catalytic learning (tm) helps you generate classroom discussions, personalize your lecture, and facilitate peer-to-peer learning inside and outside the classroom with real-time analytics. As a student response tool, Learning Catalysts uses students' smartphones, tablets or laptops to engage them in more interactive tasks and thinking. New! Upload a full powerpoint (p) package for easy slide creation. New! Team names are no longer case sensitive. Help your students develop critical thinking skills. Monitor responses to find out where students are fighting. Rely on real-time data to adjust your teaching strategy. Automatically group students for discussion, teamwork, and peer-to-peer learning. The tutorials, written by the team of authors, present specific feedback with the wrong answer, suggestions and a wide variety of interactive, educationally efficient content that guides students through the most difficult topics in astronomy. Distinctive signs and feedback provide instructions similar to what students would experience in an office hour, allowing them to learn from their mistakes without given the answer. New! The visual activities of the narrated figure are visual activities attributable to narrated animations that extend to the figures in the text. The embedded pause and answer questions involve students in a deeper understanding of the subject. Attributable activities help students build versatile interpretive skills. The specific feedback with the wrong answer guides students to a their meaning in the universe. New! Virtual Astronomy Labs are assigned, online lab activities that use Stellarium and also interactive figures to perform night sky, data collection, and laboratories based on investigation. Five other laboratories based on the survey are included. New! eText 2.0 optimized for mobile devices eText 2.0 mobile appliances offline and can be downloaded for most iOS and Android phones/tablets from the Apple App Store or Google Play. Seamless integrated videos and other rich media files Accessible (screen reader-ready) Configurable reading settings, including the resizable type and night-time reading mode Instructor and student note-taking, highlighting, marking and searching for the book's pedagogical characteristics improve the learning objectives of the chapters, written as questions, set the framework for each section and provide a clear learning path through the chapter. Essential preparation, at the beginning of each chapter, identifies the key previous concepts that students will need to understand in order to succeed in each chapter. Cosmic Calculations Boxes contain most of the mathematics used in the book, and can be covered or ignored depending on the level of mathematics included in the course. Cosmic Context Two pages The figures are two-page spreads that provide visual summaries of key processes and concepts. Annotated figures are key figures in each chapter that use research-based annotation technique -- carefully created text placed on the figure to guide students by interpreting graphs, tracking process figures, and translating between different representations. Wavelength/Observer icons are simple icons that indicate whether an astronomical image is a photograph, an artist's impression, or a computer simulation; if a photograph comes from terrestrial or spatial observations; and the wavelength band used to take the photo. Think about it sections appear throughout the book as short questions embedded in the narrative, giving students the opportunity to reflect on important new concepts. See It for Yourself sections are integrated into the narrative, giving students the opportunity to perform simple observations or experiments that will help them understand key concepts. Misconceptions common popular address held, but incorrect ideas related to the chapter material. The special subject boxes contain additional discussion topics that are related to the chapter material, but not the prerequisite for continuing the discussion. The overview at the end of each chapter helps students put what we've learned in the context of the overall goal of getting a broader perspective on ourselves, our planet, and the outlook for life beyond Earth. Chapter Summary provides a concise review of objective learning questions, helping to strengthen the student understanding of key concepts in the chapter. Thumbnail figures are included as visual clues to key illustrations and photos in the chapter. The end-of-chapter exercises in each chapter include an extensive set of exercises that can be used for study, discussion or assignment. All end-of-life exercises are organized in the following subsets: Visual skills checks help students build their skills in interpreting multiple types of visual information used in astronomy. Review questions ask questions that can only be answered from reading. Does It Make Sense? sections provide a set of short statements that students need to think about and determine whether they make sense. Quick questionnaires are short multi-choice questionnaires that allow students to check their progress. The Science Questions process are essay or discussion questions that help students focus on how science progresses over time. Group work exercises are suggested activities designed for collaborative learning in the classroom. Short-Answer/Essay Questions are questions that go beyond review questions in asking for conceptual interpretation. Quantitative problems are problems that require some mathematics, usually based on subjects covered in cosmic mathematical calculations Insight boxes. Discussion questions are open questions for class discussions. Web Projects offers some suggestions for additional web research. A detailed glossary facilitates students' search for important terms. New features further reinforce the importance of critical thinking in NEW astronomy! Extraordinary application boxes provide students with examples of extraordinary claims about the universe and how they were either supported or debunked as scientists collected more evidence. New! My Cosmic Perspective sections focus on a personal connection between students and the cosmos, encouraging students to think more critically about the meaning of what they learn in their course and apply astronomy to their lives. New! Icons draw attention to some of the features that promote critical thinking throughout the chapter and at the end of the issues chapter. Major changes at the chapter level include scientific updates and improved pedagogical flow REVIEW! Chapter 7 has been significantly rewritten to reflect new results from MESSENGER to Mercury, Curiosity and MAVEN to Mars, as well as the latest global warming data. Revised! Chapter 9 has been reorganized and rewritten to reflect recent developments in the study of small bodies, in particular the new revolutionary views provided by recent spacecraft, including Dawn, Rosetta, and New Horizons. REVISED! Chapter 10 has been heavily revised in light of thousands of new discoveries of extrasolar planets from the previous edition. Revised! In Chapter 14, Section 14.4 was rewritten to focus on mergers and events in which black holes may form. Revised! Chapter 15 has been revised to reduce jargon and include a new full-page figure showing the Milky Way in different wavelengths. In addition, Section 15.4 on the galactic center has been rewritten and has a new spread of the cosmic context of 2 pages. Revised! Chapter 16 was significantly in the light of new research on galactic evolution. Revised! Chapter 19 has been significantly re-created thanks to a new understanding of the habitable potential of Mars, Titan and extrasolar. Scientific updates reflect new developments in new astronomy! New! results and images from spacecraft exploring our solar system are included. New! Recent results of the main spatial observatories, including Hubble and Kepler, as well as strong ground observatories, are included, such as ALMA. Updated! Up-to-date data and models have been added on topics such as planetary systems formation, global warming, and the formation and evolution of galaxies. New! This includes major new discoveries and statistics on the study of extrasolar planets, new research on the timing and possible origin of life on Earth, and more. Customize your learning with Mastering Astronomy. Mastering (tm) Astronomy is the leading online themes, tutorial, and evaluation system, designed to improve results by engaging students with powerful, interactive content. Instructors ensure that students are prepared to learn by assigning new interactive lesson videos that provide students with exposure to key concepts before classes start and open time for active learning or deeper discussions about topics. With Learning Catalysts (tm) instructors can expand on key concepts and encourage student involvement during the course through individual questions or in pairs and groups. Students also master concepts through book-specific astronomy mastering missions, which provide suggestions and feedback specific to responses that build problem-solving skills. Mastering Astronomy now features Virtual Astronomy Labs, offering attributable online lab activities that use Stellarium and Interactive Figures. Pre-course questions, both interactive videos and reading, provide pre-class exposure to major concepts, both through interactive video and reading questions. 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Perfect integrated videos and other rich environments Accessible (screen-reader configurable reading, including resizable type and night-time reading mode Instructor and student notes-taking, highlighting, marking, and search figures narrated by key illustrations in text, with built-in pause and answer questions, are designed to help improve their understanding of the most challenging concepts, hone their visual skills and introduce interactivity whenever possible. New and improved interactive figures formatted for using your computer and tablet. About Book New Features further reinforce the importance of critical thinking in astronomy boxes of extraordinary claims provides students with examples of extraordinary claims about the universe and how they were either supported or debunked as scientists collected more evidence. 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