



Astronomy Today Volume 2: Stars and Galaxies (8th Edition)

By Eric Chaisson, Steve McMillan

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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.” The Eighth Edition has been thoroughly updated with the latest astronomical discoveries and theories and improved pedagogical features.

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Bibliography

- Sales Rank: #360256 in Books
- Brand: Addison-Wesley
- Published on: 2013-09-28
- Ingredients: Example Ingredients
- Original language: English
- Number of items: 1
- Dimensions: 10.80" h x 1.10" w x 8.60" l, .0 pounds
- Binding: Paperback
- 592 pages

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Editorial Review

Review

*The "Process of Science" is integrated into the text narrative. In particular the focus on scientific discovery and scientific method, or "how we know what we know", is now a much more integral part of the text (e.g. p. 6-8, 121-22, 160-65, 596-97, 611-12). *Part-opening essays emphasize the human endeavor aspect of science. Each part opener introduces a discovery and provides a historical context to the chapters that follow (e.g. p. 1, 140, 402, 600). "What role does your textbook play in your course?" *Student perspective--For this revision, the text's development editor read the text from a student perspective, helping the authors identify places they could clarify or simplify an explanation, better define a term, and discuss the process used in making a discovery. The result is a text that is truly accessible and useful resource for all students.

*Expanded Glossary--200+ terms added, including definitions of words students may not know, but are not necessarily "scientific" terms (e.g. "flyby" now defined within chapter 6 Mariner 10 discussion on p. 152).

"How can you involve your students in class and make large lectures more interactive?" *Lecture Tutorials -- Developed by Jeffrey Adams, Edward Prather, Timothy Slater and the Conceptual Astronomy and Physics Education Research (CAPER) team, class-tested lecture tutorials challenge students with thought-provoking questions that spark classroom discussion. Designed for large classes (300+) and scalable for smaller sections. *Classroom Response Systems enhances the interactivity of a lecture course by asking students questions and providing instant feedback on key concepts from the chapter. "Do you have an observation component in your course?" *Starry Night Pro 4.0.5 provides everything the amateur astronomer or hobbyist needs to explore the heavens. Content Changes:

*Thoroughly updated Chapter 5--Reflects recent discoveries and innovations, such as Telescope Design in Section 5.1 *Introduction to solar system formation added to Chapter 6--Sets the stage for the planetary chapters (p. 144-45). *Reorganized Chapter 22--Expands the historical development of Special and General Relativity. *More contemporary coverage in Chapters 24 and 25--Reorganizes material to emphasize the connection between normal and active galaxies, and expands the discussion of black holes in galactic nuclei. *Updates include new discoveries and data, including: *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. *Updated discussion of solar system formation in Chapter 15; expanded coverage of competing theories, planet migration, planetesimal ejection, plutinos, and the angular momentum problem. *Latest results in Chapter 23 on Sgr A* and the Galaxy's central black hole. This chapter also includes a new discussion of the Shapley-Curtis debate giving historical context to the "Measuring the Milky Way" section. *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 WMAP experiments suggesting a flat universe. *Updated coverage of Europa, Mars, interstellar organic molecules, extra solar planets, and SETI in Chapter 28.

From the Publisher

The number-one, best-selling astronomy text, *Astronomy Today*, has been revised based on reviewers' comments and extensive development. *Astronomy Today* has been shortened (from 30 to 28 chapters), but retains its informal-but-scientific writing style, and exceptional art program. Its unique subscription program COMETS now includes computer-generated animations from NASA illustrator Dana Berry. *Astronomy Today*, Second Edition employs the familiar planets-sun-stars- galaxies organization. Key concepts are introduced in the familiar context of the Earth and solar system; the concepts are carefully developed as discussion moves outward towards the stars and galaxies. A highly praised approach to spectroscopy and

light (topics often difficult for students) and outstanding treatment of active galaxies and cosmology are other highlights.

From the Back Cover

Astronomy Today 4/e (ISBN 0-13-091542-4) is the more comprehensive text by this proven team of authors. This twenty-eight chapter text begins with the foundations of the history of science and physics as they relate to astronomy (Part One), then proceeds with an "Earth-out" organization for coverage of the solar system (Part Two), stars and stellar evolution (Part Three), and galaxies and cosmology (Part Four). New with the fourth edition, the book is now available in two paperback splits:

Astronomy Today 4/e: The Solar System (ISBN 0-13-093560-3) covers Part One on foundations (Chapters 1-\$); Part Two on the solar system (Chapters 6-15); the Sun chapter (Chapter 16); and the final chapter on life in the universe (Chapter 28).

Astronomy Today 4/e: Stars and Galaxies (ISBN 0-13-093571-9) includes Part One on foundations (Chapters 1-S); Part Three on stars and stellar evolution (Chapters 16-22); and Part Four on galaxies and cosmology (Chapters 23-28).

Astronomy: A Beginner's Guide to the Universe 4/e (ISBN 0-13-100727-0) is the authors' briefer text. It covers the same scope of material in the same order as *Astronomy Today 4/e*, but with less detail and in fewer chapters (eighteen instead of twenty-eight) and fewer pages.

Users Review

From reader reviews:

Rosa Crowe:

The experience that you get from *Astronomy Today Volume 2: Stars and Galaxies* (8th Edition) is a more deep you searching the information that hide inside the words the more you get enthusiastic about reading it. It does not mean that this book is hard to know but *Astronomy Today Volume 2: Stars and Galaxies* (8th Edition) giving you thrill feeling of reading. The writer conveys their point in specific way that can be understood simply by anyone who read the item because the author of this guide is well-known enough. That book also makes your own vocabulary increase well. That makes it easy to understand then can go to you, both in printed or e-book style are available. We propose you for having this kind of *Astronomy Today Volume 2: Stars and Galaxies* (8th Edition) instantly.

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Thomas Gonzalez:

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