

NEW EDITION



Full interactive ebook
available in MindTap

Foundations of Astronomy, 14e

Seeds | Backman

©2019

ISBN: 9780357031612


Option for your students:

**WebAssign Astronomy for Foundations
of Astronomy, 14e**

Overview

Fascinating, engaging and extremely visual, FOUNDATIONS OF ASTRONOMY, 14th Edition, emphasizes the scientific method throughout as it guides students to answer two fundamental questions: What are we? And how do we know? In addition to exploring the newest developments and latest discoveries in the exciting field of Astronomy, authors Seeds and Backman discuss the interplay between evidence and hypothesis, providing both factual information and a conceptual framework for understanding the logic of science.

Features & Benefits

-  **WebAssign** for Foundations of Astronomy, 14e includes Virtual Astronomy Labs 3.0—a set of 10 interactive activities that combine analysis of real astronomical data with robust simulations—providing a true Online laboratory experience for your Introductory Astronomy course.
- KEY EQUATIONS now have numbers, titles and examples to demonstrate their use. This highlights and reinforces the equations that will be needed to solve problems in later chapters.
- New SENSE OF PROPORTION questions have been added to help students ground their understanding of relative sizes of celestial objects, distances and so on. As a complement to this, discussion of proportionality has been expanded where relevant throughout the text.
- The end-of-chapter SUMMARY sections have been significantly revised in all chapters with the goal of helping students focus and better navigate key concepts for review.
- Discussion Questions have been replaced with ACTIVE INQUIRY QUESTIONS, designed to engage students in deeper critical thinking.
- Every chapter has been revised and updated with new text and images regarding observatories, scientific missions and new discoveries.
- Material on normal galaxies, active galaxies and black holes—Chapters 16 and 17 in the previous edition—have been combined and streamlined into a single chapter, Chapter 16. Following chapters have been renumbered as a result.
- The authors focus strongly on the scientific method throughout the text, using astronomy to explore and explain fundamental scientific principles and processes.
- “How Do We Know?” boxes highlight great moments in science from various disciplines to illustrate the logical processes scientists use to learn about nature.
- “Practicing Science” features help students review key concepts and hone critical thinking skills by considering how scientists construct logical arguments from observations, evidence, theories and natural laws. Each feature includes a thoughtfully posed science question, sample answers to illustrate scientific reasoning and sometimes a second question that allows students to construct their own argument.