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Stars and Galaxies

Understanding and Improving Learning in Undergraduate Science and Engineering

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## **KAISER HANCOCK**

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Cosmic Perspective + Mastering With Etext + Lecture Tutorials on Astronomy + Skygazer Software 5.0 Addison-Wesley

The National Science Foundation funded a synthesis study on the status, contributions, and future direction of discipline-based education research (DBER) in physics, biological sciences, geosciences, and chemistry. DBER combines knowledge of

teaching and learning with deep knowledge of discipline-specific science content. It describes the discipline-specific difficulties learners face and the specialized intellectual and instructional resources that can facilitate student understanding. Discipline-Based Education Research is based on a 30-month study built on two workshops held in 2008 to explore evidence on promising practices in undergraduate science, technology, engineering, and mathematics (STEM) education. This book asks questions that are

essential to advancing DBER and broadening its impact on undergraduate science teaching and learning. The book provides empirical research on undergraduate teaching and learning in the sciences, explores the extent to which this research currently influences undergraduate instruction, and identifies the intellectual and material resources required to further develop DBER. Discipline-Based Education Research provides guidance for future DBER research. In addition, the findings and recommendations of this report may invite, if not assist, post-secondary institutions to increase interest and research activity in DBER and improve its quality and usefulness across all natural science disciplines, as well as guide instruction and assessment across natural science courses to improve student learning. The book brings greater focus to issues of student attrition in the natural sciences that are related to the quality of instruction. Discipline-Based Education Research will be of interest to educators, policy makers, researchers, scholars, decision makers in universities, government agencies, curriculum developers, research sponsors, and education advocacy groups.

*Lecture Tutorials in Introductory Geoscience* Benjamin-Cummings Publishing Company

Funded by the National Science Foundation, Lecture-Tutorials for Introductory Astronomy is designed to help make large lecture-format courses more interactive with easy-to-implement student activities that can be integrated into existing course structures. The Second Edition of the Lecture-Tutorials for Introductory Astronomy contains nine new activities that focus on planetary science, system related topics, and the interactions of Light and matter. These new activities have been created using the same

rigorous class-test development process that was used for the highly successful first edition. Each of the 38 Lecture-Tutorials, presented in a classroom-ready format, challenges students with a series of carefully designed questions that spark classroom discussion, engage students in critical reasoning, and require no equipment. The Night Sky: Position, Motion, Seasonal Stars, Solar vs. Sidereal Day, Ecliptic, Star Charts. Fundamentals of Astronomy: Kepler's 2nd Law, Kepler's 3rd Law, Newton's Laws and Gravity, Apparent and Absolute Magnitudes of Stars, The Parsec, Parallax and Distance, Spectroscopic Parallax. Nature of Light in Astronomy: The Electromagnetic (EM) Spectrum of Light, Telescopes and Earth's Atmosphere, Luminosity, Temperature and Size, Blackbody Radiation, Types of Spectra, Light and Atoms, Analyzing Spectra, Doppler Shift. Our Solar System: The Cause of Moon Phases, Predicting Moon Phases, Path of Sun, Seasons, Observing Retrograde Motion, Earth's Changing Surface, Temperature and Formation of Our Solar System, Sun Size. Stars Galaxies and Beyond: H-R Diagram, Star Formation and Lifetimes, Binary Stars, The Motion of Extrasolar Planets, Stellar Evolution, Milky Way Scales, Galaxy Classification, Looking at Distant Objects, Expansion of the Universe. For all readers interested in astronomy.

*An Introduction to Modern Astrophysics* National Academies Press 0134452836 / 9780134452838 Lecture- Tutorials for Introductory Astronomy, StarGazer 5.0 Student Access Card, Modified MasteringAstronomy with Pearson eText -- ValuePack Access Card -- for The Cosmic Perspective Package consists of: 0321765184 / 9780321765185 SkyGazer 5.0 Student Access Code Card (Integrated component) 0321820460 /

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Perspective

Lecture Tutorials for Introductory Astronomy - Preliminary Version  
Addison-Wesley

An Introduction to Modern Astrophysics is a comprehensive, well-organized and engaging text covering every major area of modern astrophysics, from the solar system and stellar astronomy to galactic and extragalactic astrophysics, and cosmology. Designed to provide students with a working knowledge of modern astrophysics, this textbook is suitable for astronomy and physics majors who have had a first-year introductory physics course with calculus. Featuring a brief summary of the main scientific discoveries that have led to our current understanding of the universe; worked examples to facilitate the understanding of the concepts presented in the book; end-of-chapter problems to practice the skills acquired; and computational exercises to numerically model astronomical systems, the second edition of An Introduction to Modern Astrophysics is the go-to textbook for learning the core astrophysics curriculum as well as the many advances in the field.

**Stars and Galaxies** Addison-Wesley

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.

**Lecture- Tutorials for Introductory Astronomy, Skygazer 5.0 Student Access Code Card and Modified Masteringastronomy with Pearson Etext -- Standalone**  
Pearson

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.

The Cosmic Perspective + Masteringastronomy With Pearson Etext Access Card + Lecture-tutorials for Introductory Astronomy  
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0321932056 / 9780321932051 Cosmic Perspective, The: Stars and Galaxies & MasteringAstronomy with Pearson eText- Access Card & Lecture- Tutorials for Introductory Astronomy Package Package consists of: 0321820460 / 9780321820464 Lecture-Tutorials for Introductory Astronomy 0321840925 / 9780321840929 MasteringAstronomy with Pearson eText -- ValuePack Access Card -- for The Cosmic Perspective 0321841077 / 9780321841070 Cosmic Perspective, The: Stars and Galaxies *Stars and Galaxies* Pearson

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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.

*Learning Astronomy* Cambridge University Press

It's only a matter of time before a cosmic disaster spells the end of the Earth. But how concerned should we about about any of these catastrophic scenarios? And if they do post a danger, can anything be done to stop them?

Astronomy Programme: Aas-lop Astronomy

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eText -- ValuePack Access Card -- for The Cosmic Perspective  
0321841069 / 9780321841063 Cosmic Perspective, The: The  
Solar System "

**Investigating Astronomy** W. H. Freeman

Fascinating, engaging, and extremely visual, STARS AND GALAXIES emphasizes the scientific method throughout as it guides students to answer two fundamental questions: What are we? And how do we know? Updated with the newest developments and latest discoveries in the field of astronomy, authors Michael Seeds and Dana Backman discuss the interplay between evidence and hypothesis, while providing not only facts but also a conceptual framework for understanding the logic of science. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

**Astronomy Education** W. H. Freeman

This package contains: 0321715365: Essential Cosmic Perspective Plus MasteringAstronomy with eText -- Access Card Package 0321820460: Lecture- Tutorials for Introductory Astronomy

Tutorials in Introductory Physics W. W. Norton

Lecture Tutorials for Introductory Astronomy Addison-Wesley

**The Cosmic Perspective** Cengage Learning

a set of instructional materials intended to supplement the lectures and textbook of a standard introductory physics course  
Cosmic Perspective Stars Galaxies and Cosm and Lectr Pk Benjamin-Cummings Publishing Company

Research shows that active learning supports deeper, long-term understanding. The Third Edition text and media package gives students more opportunities to interact with astronomy--both in real life and online. The new edition provides all the resources you need to make it easy to incorporate active learning into the classroom.

*Lecture- Tutorials for Introductory Astronomy* McGraw-Hill Science/Engineering/Math

"Building on a long tradition of effective pedagogy and comprehensive presentation, The Cosmic Perspective includes an enhanced art program. This student-friendly text is now even more accessible through robust visual pedagogy via new Cosmic Context two-page illustrations, which walk students through key processes and summarize the major points of each Part, and via updated zoom-in figures which provide students with a sense of orientation, scale, and relation between images. In addition to an enhanced art program, the text also features new See It For Yourself boxes with practical hands-on activities for in-class use or self-study, and a new subset of Process of Science end-of-chapter questions that challenge students to think through how we know what we know about astronomy."--Product description.

**Astronomy Today Value Package (Includes Lecture Tutorials for Introductory Astronomy)** Benjamin-Cummings Publishing Company

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

**Astronomy + Lecture-Tutorials for Introductory Astronomy** Macmillan Higher Education

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