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*OMB No.
8472910530254
edited by*

LOGAN MARITZA

**LECTURE- TUTORIALS
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ASTRONOMY**

Benjamin-Cummings

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Steve McMillan
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astronomical discoveries
and theories, and it has

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Universe Addison-Wesley 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

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Astronomy is written in
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occasional touch of humor
and a wide range of
clarifying illustrations. It
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drawn from everyday life
to help non-science
majors appreciate, on
their own terms, what our
modern exploration of the
universe is revealing. The

book can be used for either a one-semester or two-semester introductory course (bear in mind, you can customize your version and include only those chapters or sections you will be teaching.) It is made available free of charge in electronic form (and low cost in printed form) to students around the world. If you have ever thrown up your hands in despair over the spiraling cost of astronomy textbooks, you owe your students a good look at this one. Coverage and Scope Astronomy was

written, updated, and reviewed by a broad range of astronomers and astronomy educators in a strong community effort. It is designed to meet scope and sequence requirements of introductory astronomy courses nationwide. Chapter 1: Science and the Universe: A Brief Tour Chapter 2: Observing the Sky: The Birth of Astronomy Chapter 3: Orbits and Gravity Chapter 4: Earth, Moon, and Sky Chapter 5: Radiation and Spectra Chapter 6: Astronomical

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TUTORIALS IN INTRODUCTORY PHYSICS

Addison-Wesley 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.

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 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.

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Chapter topics include the Solar System, stellar magnitudes, techniques in astronomy, moon phases, stellar evolution, and more. For college professors, instructors and other professionals who are interested in a lively, engaging method of teaching introductory astronomy.

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