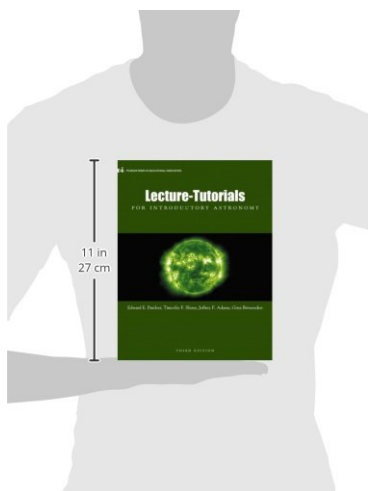


[PDF] Lecture-Tutorials For Introductory Astronomy, 3rd Edition

Edward E. Prather, Slater Timothy F, Jeff P. Adams, Gina Brissenden - pdf download free book



Books Details:

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Description:

Lecture-Tutorials for Introductory Astronomy provides a collection of 44 collaborative learning, inquiry-based activities to be used with introductory astronomy courses. Based on education research, these activities are “classroom ready” and lead to deeper, more complete understanding through a series of structured questions that prompt you to use reasoning and identify and correct their misconceptions. All content has been extensively field tested and six new tutorials have been added that respond to reviewer demand, numerous interviews, and nationally conducted workshops.

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Lecture-Tutorials for Introductory Astronomy. Developed by: Ed Prather, Tim Slater, Jeff Adams, and Gina Brissenden. Level. What? Socratic-dialogue driven, highly-structured collaborative learning activities for use in introductory Astronomy lecture courses. Designed to elicit students' misconceptions, confront their naive, incomplete, or inaccurate ideas, resolve contradictions, and demonstrate the power of conceptual models. Example materials. Activity outline. Students work through a lecture-tutorial worksheet in lecture after an interactive lecture on the topic covered in the lecture-tutorial. Each lecture-tutorial takes 10-20 minutes. While working on the lecture-tutorial, students should Unlike static PDF Lecture- Tutorials For Introductory Astronomy 3rd Edition solution manuals or printed answer keys, our experts show you how to solve each problem step-by-step. No need to wait for office hours or assignments to be graded to find out where you took a wrong turn. You can check your reasoning as you tackle a problem using our interactive solutions viewer. Our interactive player makes it easy to find solutions to Lecture- Tutorials For Introductory Astronomy 3rd Edition problems you're working on - just go to the chapter for your book. Hit a particularly tricky question? Bookmark it to easily review again before an exam. The best part? As a Chegg Study subscriber, you can view available interactive solutions manuals for each of your classes for one low monthly price. Lecture-Tutorials for Introductory Astronomy provides a collection of 44 collaborative learning, inquiry-based activities to be used in introductory astronomy courses. Based on education research, these activities are "classroom ready" and lead to deeper, more complete student understanding through a series of structured questions that prompt students to use reasoning and identify and correct their misconceptions. All content has been extensively field tested and six new tutorials have been added that respond to reviewer demand, numerous interviews, and nationally conducted workshops. Edward Prather is the Executive Director of the Center for Astronomy Education (CAE) and Associate Professor of Astronomy in Steward Observatory at the University of Arizona. Abstract: The Lecture-Tutorials for Introductory Astronomy have been designed to help introductory astronomy instructors actively engage their students in developing their conceptual understandings and reasoning abilities across a wide range of astrophysical topics. The development of the Lecture-Tutorials has been informed by nearly two-decades of research into common learning difficulties students experience when studying astronomy. The results from multiple studies provide evidence that Lecture-Tutorials can help students achieve learning gains well beyond what is typically achieved by lect... The Lecture-Tutorial curriculum development project produced a set of 29 learner-centered classroom instructional materials for a large-enrollment introductory astronomy survey course for non-science majors. The Lecture-Tutorials are instructional materials intended for use by collaborative student learning groups, and are designed to be integrated into existing courses with conventional lectures. These instructional materials offer classroom-ready learner-centered activities that do not require any outside equipment or drastic course revision for implementation. Each 15-minute Lecture-Tutoria...