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The Cosmic Distance Ladder – Student Guide

Exercises

The Cosmic Distance Ladder Module consists of material on seven different distance determination techniques. Four of the techniques have external simulators in addition to the background pages. You are encouraged to work through the material for each technique before moving on to the next technique.

Radar Ranging

Question 1: Over the last 10 years, a large number of iceballs have been found in the outer solar system out beyond Pluto. These objects are collectively known as the Kuiper Belt. An amateur astronomer suggests using the radar ranging technique to learn the rotation periods of Kuiper Belt Objects. Do you think that this plan would be successful? Explain why or why not?

NO, because it would
be too far away for the radio
wave. It would be thinned out and
beamed off on many objects.

Parallax

In addition to astronomical applications, parallax is used for measuring distances in many other disciplines such as surveying. Open the **Parallax Explorer** where techniques very similar to those used by surveyors are applied to the problem of finding the distance to a boat out in the middle of a large lake by finding its position on a small scale drawing of the real world. The simulator consists of a map providing a scaled overhead view of the lake and a road along the bottom edge where our surveyor represented by a red X may be located. The surveyor is equipped with a theodolite (a combination of a small telescope and a large protractor so that the angle of the telescope orientation can be precisely measured) mounted on a tripod that can be moved along the road to establish a baseline. An **Observer's View** panel shows the appearance of the boat relative to trees on the far shore through the theodolite.

Configure the simulator to **preset A** which allows us to see the location of the boat on the map. (This is a helpful simplification to help us get started with this technique – normally the main goal of the process is to learn the position of the boat on the scaled map.) Drag the position of the surveyor around and note how the apparent position of the boat relative to background objects changes. Position the surveyor to the far left of the road and click **take measurement** which causes the surveyor to sight the boat through the theodolite and measure the angle between the line of sight to the boat and the road. Now position the surveyor to the far right of the road and click **take measurement** again. The distance between these two positions defines the baseline of our observations and the intersection of the two red lines of sight indicates the position of the boat.

38°
81°
61°

Answer The Cosmic Distance Ladder Student Guide

Institute of Radio Engineers



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The Quizzer's Guide to the Cosmos Stephen Webb, 2024-04-18 Have you ever gazed up at the night sky and wondered how many stars you can see Whether the universe is infinite Or more prosaically what the chances are of you being hit by a rock from space The Quizzer's Guide to the Cosmos is here to satisfy your curiosity by offering an overview of the history of astronomy from the earliest beginnings through to the most recent discoveries This isn't a typical astronomy book however it's packed with a 500 question multiple choice quiz that not only makes the book more interactive but also helps you retain information and lets you test your knowledge of some of the most captivating concepts in science The book will appeal to astronomy buffs and to general quiz aficionados alike Digital questions and answers also via app Download the Springer Nature Flashcards app free of charge and test your knowledge **Choice**, 2007 The Reader's Adviser, 1986 **Physics from Planet Earth - An Introduction to Mechanics** Joseph C. Amato, Enrique J. Galvez, 2015-09-11 Expose Your Students to the Elegant World of Physics in an Enticing Way Physics from Planet Earth An Introduction to Mechanics provides a one semester calculus based introduction to classical mechanics for first year undergraduate students studying physics chemistry astronomy or engineering Developed from classroom tested materials refined and **Scientific and Technical Aerospace Reports**, 1963 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database

Government-wide Index to Federal Research & Development Reports, 1966-05 International Aerospace Abstracts, 1986 **Bulletin of the Atomic Scientists**, 1953-11 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin's iconic Doomsday Clock stimulates solutions for a safer world *Proceedings of the IRE*. Institute of Radio Engineers, 1962 **Proceedings of the IRE.**, 1962

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