CONCEPTUAL PHYSICAL SCIENCE

Activity

Waves and Sound

Wave Mechanics Simulation

Water Waves in an Electric Sink

Purpose

To observe and control waves in a ripple tank simulation to learn the basics of wave mechanics

Apparatus

computer

PhET simulation "Wave Interference" (available at http://phet.colorado.edu)

Discussion

The ripple tank is an effective (though cumbersome) classroom device used for demonstrating and exploring wave phenomena. A simple version is shown on page 254 in your text. More elaborate ones resemble a small glass table with raised edges. Water is poured onto the table and kept from spilling by the raised edges. Typically, a strong point light source is placed above the tank, and shadows of ripples can be seen below the tank. A small ball attached to a motor bobs in and out of the water to make waves with consistent amplitude and wavelength.

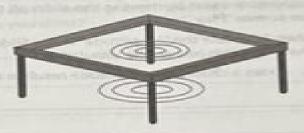


Figure 1. A Ripple Tank

A variety of wave phenomena can be demonstrated using the ripple tank. This activity uses a ripple tank simulation, so you'll be able to investigate waves without the water.

Procedure

PART A: CRESTS AND TROUGHS

Step 1: When the simulation opens, you will see a faucet dripping water into a large sink. The drops create ripples in the water in the sink.

Step 2: Locate the "Rotate View" slider in the control panel on the right side of the window. Drag the slider to the right. Doing so rotates your view of the sink from a top view to a side view.

Step 3: Locate the "Pause" button at the bottom of the window. Try to pause the animation when the water under the faucet rises to its highest point (close to or touching the faucet itself).

Step 4: Locate the "Show Graph" button below the blue water of the ripple tank. Click it to activate the graph. Notice that the graph and the side view of the water match each other.

Step 5: Slide the "Rotate View" slider back to the left so that it shows the top view of the water.

Water Waves In An Electric Sink Answer Key

Michael Rajnik

Water Waves In An Electric Sink Answer Key:

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Table of Contents Water Waves In An Electric Sink Answer Key

- 1. Understanding the eBook Water Waves In An Electric Sink Answer Key
 - The Rise of Digital Reading Water Waves In An Electric Sink Answer Key
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Water Waves In An Electric Sink Answer Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Water Waves In An Electric Sink Answer Key
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Water Waves In An Electric Sink Answer Key
 - Personalized Recommendations
 - Water Waves In An Electric Sink Answer Key User Reviews and Ratings

- Water Waves In An Electric Sink Answer Key and Bestseller Lists
- 5. Accessing Water Waves In An Electric Sink Answer Key Free and Paid eBooks
 - Water Waves In An Electric Sink Answer Key Public Domain eBooks
 - Water Waves In An Electric Sink Answer Key eBook Subscription Services
 - Water Waves In An Electric Sink Answer Key Budget-Friendly Options
- 6. Navigating Water Waves In An Electric Sink Answer Key eBook Formats
 - o ePub, PDF, MOBI, and More
 - Water Waves In An Electric Sink Answer Key Compatibility with Devices
 - Water Waves In An Electric Sink Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Water Waves In An Electric Sink Answer Key
 - Highlighting and Note-Taking Water Waves In An Electric Sink Answer Key
 - Interactive Elements Water Waves In An Electric Sink Answer Key
- 8. Staying Engaged with Water Waves In An Electric Sink Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Water Waves In An Electric Sink Answer Key
- 9. Balancing eBooks and Physical Books Water Waves In An Electric Sink Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Water Waves In An Electric Sink Answer Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Water Waves In An Electric Sink Answer Key
 - Setting Reading Goals Water Waves In An Electric Sink Answer Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Water Waves In An Electric Sink Answer Key
 - Fact-Checking eBook Content of Water Waves In An Electric Sink Answer Key
 - Distinguishing Credible Sources

- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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