longitudinal waves gizmo answer key pdf

longitudinal waves gizmo answer key pdf are highly sought after by students and educators alike for understanding the fundamental principles of wave motion. This article aims to provide a comprehensive resource for those seeking to master the concepts covered in the Gizmo, specifically focusing on longitudinal wave properties. We will delve into the characteristics of these waves, explore key parameters like wavelength, frequency, and amplitude, and discuss how to interpret data generated by the Gizmo. Furthermore, we will address common questions and scenarios encountered while using the simulation, offering insights that go beyond simple answers, aiming to build a deeper conceptual understanding. Whether you are a student preparing for an exam or an educator looking for supplementary materials, this guide will serve as a valuable tool for navigating the complexities of longitudinal waves.

- Understanding Longitudinal Waves: The Basics
- Key Parameters of Longitudinal Waves in the Gizmo
- Analyzing Gizmo Data for Longitudinal Waves
- Common Challenges and Solutions with Longitudinal Waves Gizmo
- Exploring Longitudinal Wave Phenomena
- Practical Applications and Further Learning

What Are Longitudinal Waves Gizmo Concepts?

The Longitudinal Waves Gizmo provides an interactive platform for students to explore the behavior and characteristics of waves where the particles of the medium move parallel to the direction of wave propagation. This is a fundamental concept in physics, crucial for understanding phenomena like sound waves. Unlike transverse waves, where particle motion is perpendicular to wave direction, longitudinal waves involve compressions and rarefactions, areas of high and low pressure respectively, as the wave travels through a medium. The Gizmo allows for direct manipulation of wave properties and observation of their effects, making abstract concepts tangible and easier to grasp.

Defining Longitudinal Wave Motion

A longitudinal wave, also known as a compressional wave, is a wave in which the vibration or oscillation of the particles of the medium is in the same direction as the propagation of the wave. Imagine a Slinky being pushed and pulled; the coils bunch up (compression) and spread out (rarefaction) in the same direction the push is traveling. This contrasts with a transverse wave, like ripples on water, where the water particles move up and down while the ripple moves horizontally. Understanding this distinction is key to unlocking the intricacies of various wave phenomena. The Gizmo visually represents these compressions and rarefactions, allowing for an intuitive understanding of how energy is transferred through the medium.

Distinguishing from Transverse Waves

The primary difference between longitudinal and transverse waves lies in the orientation of particle displacement relative to the wave's direction of travel. In longitudinal waves, displacement is parallel, creating regions of compression and expansion. In transverse waves, displacement is perpendicular, creating crests and troughs. Sound waves are a classic example of longitudinal waves, propagating through air, water, or solids as variations in pressure. Light waves, on the other hand, are transverse electromagnetic waves. The Gizmo often allows for a comparison between these two types of wave motion, reinforcing the fundamental differences and helping students identify which type of wave they are observing.

Key Parameters of Longitudinal Waves in the Gizmo

To effectively use the Longitudinal Waves Gizmo and understand the associated answer key pdf, it is essential to grasp the core parameters that define these waves. The Gizmo allows users to manipulate and observe the impact of changes in these parameters on the wave's behavior. A thorough understanding of these variables will facilitate accurate predictions and problem-solving within the simulation and beyond.

Wavelength and Frequency in Longitudinal Waves

Wavelength in a longitudinal wave is defined as the distance between two consecutive compressions or two consecutive rarefactions. It is a measure of the spatial extent of one complete cycle of the wave. Frequency, conversely, is the number of complete cycles (compressions and rarefactions) that pass a

given point per unit of time, typically measured in Hertz (Hz). The Gizmo enables direct control over frequency, allowing users to see how increasing or decreasing the rate at which the source vibrates affects the wave's characteristics. A higher frequency generally results in a shorter wavelength, assuming the wave speed remains constant.

Amplitude and Wave Speed

The amplitude of a longitudinal wave is related to the maximum displacement of particles from their equilibrium position, or more commonly, the maximum pressure variation in a compression or rarefaction. In the context of sound, a higher amplitude corresponds to a louder sound. Wave speed is the distance the wave travels per unit of time. It is determined by the properties of the medium through which the wave is propagating. For example, sound travels faster in solids than in liquids, and faster in liquids than in gases. The Gizmo often allows for changes in the medium or its properties, demonstrating how these affect wave speed. The relationship between speed, frequency, and wavelength is given by the fundamental wave equation: wave speed = frequency × wavelength.

Understanding Compression and Rarefaction

Compressions are the regions in a longitudinal wave where the particles of the medium are crowded together, resulting in higher density and pressure. Rarefactions are the regions where the particles are spread apart, leading to lower density and pressure. The Gizmo visually depicts these alternating regions, making it clear how the wave propagates by transferring these disturbances. Observing the spacing and intensity of compressions and rarefactions is crucial for understanding the energy transfer and the overall characteristics of the longitudinal wave being studied.

Analyzing Gizmo Data for Longitudinal Waves

The power of the Longitudinal Waves Gizmo lies in its ability to collect and display data, which can then be analyzed to confirm theoretical concepts. Navigating and interpreting this data is a crucial skill for students aiming to effectively answer questions related to the simulation and achieve a deeper understanding of longitudinal wave physics. The "answer key pdf" often guides students through specific data analysis tasks.

Interpreting Graphs of Particle Displacement

The Gizmo may generate graphs showing the displacement of individual particles over time or the displacement of all particles at a specific moment. Analyzing these graphs helps visualize the wave's motion. For longitudinal waves, a plot of displacement versus position will show peaks and troughs corresponding to the maximum displacement of particles from their rest positions. The periodicity of these graphs directly relates to the wavelength of the wave. Understanding how to read these sinusoidal-like patterns is essential for extracting key information about the wave.

Using Measurement Tools in the Gizmo

Most Gizmo simulations are equipped with measurement tools, such as rulers and timers. These tools are invaluable for quantifying wave properties. Students can use a virtual ruler to measure the distance between successive compressions to determine the wavelength. A virtual timer can be used to count the number of waves passing a point in a given time, allowing for the calculation of frequency. Accurate use of these tools is paramount for obtaining correct results that align with expected theoretical values and any provided answer key.

Relating Gizmo Observations to Theoretical Formulas

The ultimate goal of using the Gizmo is to connect the observed phenomena with established scientific principles. Students should strive to relate their measurements from the Gizmo to theoretical formulas such as the wave speed equation (v = $f\lambda$). For example, if the Gizmo allows manipulation of frequency and observation of wavelength, students can calculate the wave speed and verify if it remains constant for a given medium. This process of verification reinforces learning and builds confidence in applying physics concepts.

Common Challenges and Solutions with Longitudinal Waves Gizmo

While the Longitudinal Waves Gizmo is designed for intuitive use, students may encounter certain challenges. Understanding these common pitfalls and their solutions can significantly enhance the learning experience and help users find the "longitudinal waves gizmo answer key pdf" more effectively.

Difficulty Visualizing Compression and Rarefaction

Some students might struggle to visualize the concept of compressions and rarefactions, especially if they are more accustomed to transverse wave representations. The solution is to focus on the relative spacing of the particles. In compressions, the particles are closer together than their equilibrium spacing. In rarefactions, they are farther apart. The Gizmo's visual representation, often with color-coding or density indicators, helps highlight these regions. Using analogies, like a spring or a line of people, can also aid in visualization.

Misinterpreting Amplitude in Longitudinal Waves

Defining and measuring amplitude for longitudinal waves can sometimes be confusing. As mentioned, it can refer to particle displacement or pressure variation. The Gizmo's specific way of representing amplitude is usually indicated. If it displays particle displacement, focus on the maximum deviation from the equilibrium position. If it relates to pressure, observe the magnitude of pressure changes in the compressions. Always refer to the Gizmo's on-screen descriptions or accompanying materials for precise definitions.

Trouble with Unit Conversions and Calculations

Physics problems often involve working with different units (e.g., meters, centimeters, seconds, milliseconds). Students need to be diligent with unit conversions when performing calculations based on Gizmo data. For example, if wavelength is measured in centimeters and frequency in Hertz (which is per second), ensure consistent units before applying formulas. A quick review of common unit prefixes and conversion factors is always beneficial.

Exploring Longitudinal Wave Phenomena

Beyond the basic parameters, the Longitudinal Waves Gizmo can be used to explore more complex and fascinating phenomena related to wave behavior. These explorations often form the basis of more advanced questions and provide a deeper appreciation for the real-world relevance of longitudinal waves.

Reflection and Transmission of Waves

When a longitudinal wave encounters a boundary or a change in the medium, it can be reflected and transmitted. The Gizmo may simulate these scenarios, allowing students to observe how the wave bounces back or passes through. For instance, a sound wave hitting a solid wall will reflect. Understanding the phase changes that can occur during reflection (e.g., a compression reflecting as a compression or rarefaction depending on the boundary) is a key learning objective. The transmission aspect shows how energy continues to propagate into the new medium, potentially with a change in speed and wavelength.

Interference and Superposition

When two or more longitudinal waves meet, they interfere. The principle of superposition states that the resultant displacement (or pressure variation) at any point is the vector sum of the displacements (or pressure variations) of the individual waves. The Gizmo can be used to demonstrate constructive interference (where waves reinforce each other, leading to larger amplitude) and destructive interference (where waves cancel each other out). This phenomenon is fundamental to understanding beats in sound and the operation of noise-canceling technologies.

Doppler Effect with Longitudinal Waves

The Doppler effect is the change in frequency of a wave in relation to an observer who is moving relative to the wave source. For longitudinal waves like sound, this means the pitch of the sound changes if the source or the observer is moving. If a sound source approaches, the compressions are encountered more frequently, leading to a higher perceived frequency (higher pitch). If it recedes, the compressions are spread out, resulting in a lower perceived frequency (lower pitch). The Gizmo often provides a simulation of this effect, allowing for direct observation of the changing pitch.

Practical Applications and Further Learning

The concepts explored in the Longitudinal Waves Gizmo have widespread practical applications that touch many aspects of our daily lives and scientific endeavors. Continued exploration beyond the Gizmo can solidify understanding and inspire further scientific inquiry.

Sound Waves and Acoustics

Sound is the most common and relatable example of a longitudinal wave. The Gizmo's principles directly apply to understanding how musical instruments produce sound, how sound travels through different environments, and the design of audio equipment. The study of acoustics, the science of sound and its properties, relies heavily on the principles of longitudinal wave propagation, including reflection, absorption, and interference.

Seismic Waves and Earth Science

In geophysics, longitudinal waves, specifically P-waves (primary waves), are crucial for understanding earthquakes. These waves travel through the Earth's interior, providing geologists with information about the planet's structure. Analyzing the travel times and characteristics of seismic waves allows scientists to map subsurface layers and detect anomalies. The speed of P-waves varies depending on the density and elasticity of the materials they pass through, making them valuable probes.

Medical Imaging and Ultrasound

Ultrasound technology, widely used in medical diagnostics, utilizes high-frequency longitudinal waves. These waves are transmitted into the body, and their reflections from different tissues and organs are detected and processed to create images. The ability to control the frequency and analyze the reflected wave patterns is directly related to the physics explored in the Longitudinal Waves Gizmo. This application highlights the critical role of understanding wave behavior in advanced technologies.

Frequently Asked Questions

What is the primary phenomenon demonstrated by the Longitudinal Waves Gizmo?

The Longitudinal Waves Gizmo primarily demonstrates the creation and propagation of longitudinal waves, where particles in the medium oscillate parallel to the direction of wave travel.

How does the Gizmo allow users to visualize compressions and rarefactions?

The Gizmo visualizes compressions (regions of high density and pressure) and

rarefactions (regions of low density and pressure) through changes in particle spacing and color intensity along the wave path.

What are the key variables users can manipulate in the Longitudinal Waves Gizmo?

Users can typically manipulate variables such as frequency, amplitude, wave speed, and the properties of the medium (e.g., density, spring constant).

How does changing the frequency affect the longitudinal wave in the Gizmo?

Increasing the frequency generally leads to more compressions and rarefactions per unit time, resulting in a shorter wavelength and a higher pitch if the wave were sound.

What is the relationship between wave speed, frequency, and wavelength in the context of the Gizmo?

The Gizmo illustrates the fundamental wave equation: wave speed (v) equals frequency (f) multiplied by wavelength (λ) (v = $f\lambda$).

Can the Gizmo simulate sound waves, and if so, how?

Yes, the Gizmo can simulate sound waves, as sound waves are longitudinal waves that travel through a medium like air. The compressions and rarefactions represent variations in air pressure.

How does the Gizmo demonstrate constructive and destructive interference for longitudinal waves?

While not always a primary feature, some versions might show interference by superimposing two waves. Constructive interference would result in a larger amplitude compression, and destructive interference would lead to a cancellation or smaller amplitude wave.

What is the role of the 'medium' in the Longitudinal Waves Gizmo?

The medium (often represented as a series of connected particles or springs) is essential for wave propagation. Its properties, such as elasticity and density, influence the wave speed.

How can the Longitudinal Waves Gizmo be used to explain concepts like resonance?

The Gizmo could demonstrate resonance by exciting the medium at its natural frequency, leading to large amplitude oscillations. This often involves observing how the system responds to different driving frequencies.

Additional Resources

Here is a numbered list of 9 book titles related to longitudinal waves and potential answer keys, with short descriptions:

- 1. Understanding Longitudinal Waves: A Practical Guide
 This book delves into the fundamental principles of longitudinal waves,
 explaining their nature, behavior, and propagation. It covers topics like
 compression, rarefaction, and their applications in areas such as sound and
 seismic activity. The text is designed for students and educators seeking a
 clear understanding of wave mechanics, potentially including exercises and
 solutions.
- 2. Physics of Waves: With Worked Examples
 A comprehensive exploration of wave phenomena, this text dedicates significant chapters to longitudinal waves. It presents complex concepts through detailed explanations and numerous worked examples. Students will find this book invaluable for mastering wave physics, with an emphasis on problem-solving techniques and understanding the underlying mathematical frameworks.
- 3. Sound and Waves: An Introductory Textbook
 Focusing on the ubiquitous nature of sound as a longitudinal wave, this
 textbook provides a foundational understanding of wave properties. It breaks
 down concepts like amplitude, frequency, and wavelength in an accessible
 manner. The book likely includes practice problems and their solutions,
 making it a useful resource for introductory physics courses.
- 4. Seismic Waves: Analysis and Interpretation
 This specialized text examines longitudinal waves, specifically P-waves,
 which are critical in seismology. It details how these waves are generated by
 earthquakes, travel through the Earth's interior, and are used to understand
 subsurface geological structures. Professionals and advanced students would
 benefit from its in-depth analysis and application-oriented approach.
- 5. Acoustics and Wave Propagation: Theory and Applications
 This book offers a rigorous treatment of wave propagation, with a strong emphasis on longitudinal waves in various media. It explores the theoretical underpinnings of acoustic phenomena and their practical applications in fields like engineering and music. The content is suited for those needing a deeper theoretical understanding and possibly access to verified problem solutions.

- 6. Conceptual Physics: Longitudinal Wave Phenomena
 Designed for a conceptual understanding of physics, this book breaks down
 longitudinal waves into digestible topics. It avoids overly complex
 mathematics, focusing instead on intuitive explanations and real-world
 examples. The text would likely include explanations of how such concepts are
 demonstrated and assessed in educational settings.
- 7. Wave Motion: A Student's Companion
 This companion guide aims to support students in their study of wave motion, including longitudinal waves. It provides supplementary explanations, clarifies common points of confusion, and offers additional practice problems. The book is structured to complement main textbooks and offer a different perspective on learning wave principles.
- 8. Longitudinal Waves in Fluid Dynamics: Fundamentals
 This specialized volume concentrates on longitudinal waves as they occur
 within fluid systems. It explores the physics of pressure waves, shock waves,
 and other related phenomena in liquids and gases. The book is ideal for
 advanced students and researchers in fluid mechanics seeking detailed
 theoretical insights.
- 9. Interactive Physics Simulations: Exploring Wave Behavior
 While not a traditional textbook, this resource focuses on the practical
 exploration of physics concepts through interactive simulations, often
 related to wave behavior including longitudinal waves. It likely includes
 guided activities and explanations designed to help users understand how wave
 properties are observed and manipulated, potentially with answer keys for
 associated exercises.

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Understanding Longitudinal Waves: A Comprehensive Guide to the Gizmo and Beyond

This ebook delves into the intricacies of longitudinal waves, utilizing the popular Gizmo simulation as a learning tool, and expands upon the concepts to encompass real-world applications and advanced understanding. We'll explore the fundamental principles, practical applications, and troubleshooting tips related to this important physics concept.

Ebook Title: Mastering Longitudinal Waves: A Complete Guide with the Gizmo Simulation

Contents:

Introduction: Defining longitudinal waves, differentiating them from transverse waves, and introducing the Gizmo simulation as a learning aid.

Chapter 1: Exploring Longitudinal Wave Properties: Analyzing wavelength, frequency, amplitude, and speed using the Gizmo and real-world examples. Including mathematical relationships and calculations.

Chapter 2: Sound Waves as Longitudinal Waves: Deep dive into the nature of sound, its propagation through different media, and the connection to longitudinal wave properties. Exploring concepts like intensity, decibels, and the Doppler effect.

Chapter 3: Applications of Longitudinal Waves: Examining real-world applications such as ultrasound, sonar, seismic waves, and medical imaging. Exploring the underlying principles and technological advancements.

Chapter 4: Troubleshooting the Gizmo and Interpreting Results: Addressing common issues encountered while using the Gizmo simulation and providing strategies for accurate data interpretation and analysis. Offering tips for maximizing learning potential.

Conclusion: Summarizing key concepts, emphasizing the significance of understanding longitudinal waves, and highlighting potential avenues for further exploration.

Introduction: This section lays the groundwork by defining longitudinal waves – waves where the particle displacement is parallel to the direction of wave propagation – contrasting them with transverse waves. It then introduces the interactive Gizmo simulation as a valuable tool for visualizing and understanding these abstract concepts.

Chapter 1: Exploring Longitudinal Wave Properties: This chapter uses the Gizmo to interactively explore key characteristics of longitudinal waves: wavelength (distance between successive compressions or rarefactions), frequency (number of waves passing a point per unit time), amplitude (maximum displacement from equilibrium), and wave speed (speed at which the wave propagates). It will also cover the mathematical relationship between these properties ($v = f\lambda$). Real-world examples will reinforce understanding.

Chapter 2: Sound Waves as Longitudinal Waves: This chapter delves into the physics of sound, establishing its nature as a longitudinal wave. We will explore how sound waves propagate through various media (solids, liquids, gases), examining the factors influencing speed and intensity. Concepts like the decibel scale, sound intensity, and the Doppler effect (change in frequency due to relative motion between source and observer) will be explained with relatable examples.

Chapter 3: Applications of Longitudinal Waves: This chapter showcases the diverse applications of longitudinal waves in various fields. We explore ultrasound technology (medical imaging and non-destructive testing), sonar (navigation and underwater exploration), seismic waves (earthquake monitoring and geological studies), and medical applications such as therapeutic ultrasound. The underlying principles and technological advancements behind each application will be discussed.

Chapter 4: Troubleshooting the Gizmo and Interpreting Results: This practical section addresses common challenges users might face when utilizing the Gizmo simulation. It provides solutions to technical issues and offers guidance on interpreting data accurately. Tips on maximizing the learning experience through effective use of the Gizmo's interactive features will also be included.

Conclusion: This section summarizes the key concepts covered throughout the ebook, reinforcing the importance of understanding longitudinal waves in various scientific and technological fields. It encourages further exploration of related topics and suggests resources for continued learning.

Keywords:

Longitudinal waves, Gizmo, simulation, wavelength, frequency, amplitude, speed, sound waves, Doppler effect, ultrasound, sonar, seismic waves, physics, wave properties, educational resources, interactive learning, wave mechanics, answer key, PDF, [include additional keywords relevant to specific applications discussed]

FAQs

- 1. What is the difference between longitudinal and transverse waves? Longitudinal waves have particle displacement parallel to wave propagation (like sound), while transverse waves have particle displacement perpendicular to propagation (like light).
- 2. How does the Gizmo simulation help in understanding longitudinal waves? The Gizmo provides a visual and interactive representation of wave properties, allowing users to manipulate variables and observe the effects in real-time.
- 3. What is the significance of the Doppler effect in longitudinal waves? The Doppler effect explains the change in observed frequency due to relative motion between the source and observer, crucial in applications like radar and medical ultrasound.
- 4. How are longitudinal waves used in medical imaging? Ultrasound uses high-frequency longitudinal waves to create images of internal organs and tissues.
- 5. What are some real-world examples of longitudinal waves besides sound? Seismic waves (earthquakes), pressure waves in fluids, and certain types of medical treatments utilize longitudinal wave principles.
- 6. How can I calculate the speed of a longitudinal wave? The speed is calculated using the formula: speed (v) = frequency (f) x wavelength (λ).
- 7. Where can I find the Gizmo simulation for longitudinal waves? The Gizmo is typically available through educational platforms like ExploreLearning. A quick web search for "ExploreLearning Gizmo Longitudinal Waves" should provide access.
- 8. What are some common mistakes students make when using the Gizmo? Misinterpreting the scale, not accurately measuring wave properties, and failing to understand the relationship between variables are common issues.

9. Are there any alternative resources for learning about longitudinal waves besides the Gizmo? Yes, many textbooks, online tutorials, and videos offer comprehensive explanations and interactive exercises.

Related Articles:

- 1. Transverse Waves vs. Longitudinal Waves: A Detailed Comparison: This article contrasts the two wave types, highlighting their key differences and providing examples of each.
- 2. The Physics of Sound: A Comprehensive Guide: This article delves into the properties of sound waves, covering topics like intensity, pitch, and timbre.
- 3. Ultrasound Technology: Principles and Applications in Medicine: This article explains how ultrasound is used in medical imaging and diagnosis.
- 4. Seismic Waves and Earthquake Monitoring: This article examines the different types of seismic waves and their role in understanding and predicting earthquakes.
- 5. Sonar Technology: Applications in Navigation and Underwater Exploration: This article explores the use of sonar for underwater mapping, object detection, and navigation.
- 6. The Doppler Effect: Applications in Astronomy and Radar: This article discusses the Doppler effect in different contexts, including its use in measuring the speed of stars and objects.
- 7. Interactive Physics Simulations: Enhancing Learning and Understanding: This article discusses the benefits of using interactive simulations in science education.
- 8. Troubleshooting Common Issues in Physics Simulations: This article provides general tips and solutions for overcoming challenges when using various physics simulations.
- 9. Advanced Topics in Wave Mechanics: Exploring Wave Interference and Diffraction: This article introduces more complex wave phenomena, such as interference and diffraction.

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Jennifer Wilhelm, Ronald Wilhelm, Merryn Cole, 2019-02-05 This book models project-based
environments that are intentionally designed around the United States Common Core State
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States, 2013) for Science, and the National Educational Technology Standards (ISTE, 2008). The
primary purpose of this book is to reveal how middle school STEM classrooms can be purposefully
designed for 21st Century learners and provide evidence regarding how situated learning
experiences will result in more advanced learning. This Project-Based Instruction (PBI) resource
illustrates how to design and implement interdisciplinary project-based units based on the REAL
(Realistic Explorations in Astronomical Learning – Unit 1) and CREATES (Chemical Reactions
Engineered to Address Thermal Energy Situations – Unit 2). The content of the book details these
two PBI units with authentic student work, explanations and research behind each lesson (including
misconceptions students might hold regarding STEM content), pre/post research results of unit

implementation with over 40 teachers and thousands of students. In addition to these two units, there are chapters describing how to design one's own research-based PBI units incorporating teacher commentaries regarding strategies, obstacles overcome, and successes as they designed and implemented their PBI units for the first time after learning how to create PBI STEM Environments the "REAL" way.

Corona and Heliosphere Xueshang Feng, 2019-08-01 The book covers intimately all the topics necessary for the development of a robust magnetohydrodynamic (MHD) code within the framework of the cell-centered finite volume method (FVM) and its applications in space weather study. First, it presents a brief review of existing MHD models in studying solar corona and the heliosphere. Then it introduces the cell-centered FVM in three-dimensional computational domain. Finally, the book presents some applications of FVM to the MHD codes on spherical coordinates in various research fields of space weather, focusing on the development of the 3D Solar-InterPlanetary space-time Conservation Element and Solution Element (SIP-CESE) MHD model and its applications to space weather studies in various aspects. The book is written for senior undergraduates, graduate students, lecturers, engineers and researchers in solar-terrestrial physics, space weather theory, modeling, and prediction, computational fluid dynamics, and MHD simulations. It helps readers to fully understand and implement a robust and versatile MHD code based on the cell-centered FVM.

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