

Chapter 15

Due: 11:59pm on Monday, May 6, 2024

You will receive no credit for items you complete after the assignment is due. [Grading Policy](#)

Problem 15.54 - Enhanced - with Feedback

You are exploring a newly discovered planet. The radius of the planet is $7.00 \times 10^7 \text{ m}$. You suspend a lead weight from the lower end of a light string that is 4.00 m long and has mass 0.0280 kg . You measure that it takes 0.0625 s for a transverse pulse to travel from the lower end to the upper end of the string. On earth, for the same string and lead weight, it takes 0.0400 s for a transverse pulse to travel the length of the string. The weight of the string is small enough that its effect on the tension in the string can be neglected.

Part A

Assuming that the mass of the planet is distributed with spherical symmetry, what is its mass?

Express your answer with the appropriate units.

ANSWER:

$$m = 2.95 \times 10^{26} \text{ kg}$$

Correct

Prefecture Concept Question 15.01

Part A

When the oscillation of the particles in a medium is parallel to the direction of the wave's motion, what type of wave is this?

ANSWER:

- ☐ transverse wave
☒ longitudinal wave

Correct

Wave and Particle Velocity Vector Drawing

A long string is stretched and its left end is oscillated upward and downward. Two points on the string are labeled A and B.

Part A

Points A and B are indicated on the string. Orient the two vectors, $\vec{v}_A$ and $\vec{v}_B$, to correctly represent the direction of the wave velocity at points A and B.

Rotate the given vectors to indicate the direction of the wave velocity at the indicated points.

Typing math: 100%

Mastering Physics Solutions Chapter 15

Clifford Lane



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