

## 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  $4.00 \text{ m}$  long and has mass  $0.0280 \text{ kg}$ . You measure that it takes  $0.0625 \text{ s}$  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  $0.0400 \text{ s}$  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

**JR Anderson**



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*Math for Programming* Ronald T. Kneusel, 2025-04-22 A one stop shop for all the math you should have learned for your programming career Every great programming challenge has mathematical principles at its heart Whether you're optimizing search algorithms building physics engines for games or training neural networks success depends on your grasp of core mathematical concepts In Math for Programming you'll master the essential mathematics that will take you from basic coding to serious software development You'll discover how vectors and matrices give you the power to handle complex data how calculus drives optimization and machine learning and how graph theory leads to advanced search algorithms Through clear explanations and practical examples you'll learn to Harness linear algebra to manipulate data with unprecedented efficiency Apply calculus concepts to optimize algorithms and drive simulations Use probability and statistics to model uncertainty and analyze data Master the discrete mathematics that powers modern data structures Solve dynamic problems through differential equations Whether you're seeking to fill gaps in your mathematical foundation or looking to refresh your understanding of core concepts Math for Programming will turn complex math into a practical tool you'll use every day

**Scientific Legacy Of Professor Zbigniew Oziewicz: Selected Papers From The International Conference "Applied Category Theory Graph-operad-logic"** Hilda Maria Colin

Garcia, Jose De Jesus Cruz Guzman, Louis H Kauffman, Hanna Makaruk, 2023-09-27 Dedicated to the memory of the late Professor Zbigniew Oziewicz from Universidad Nacional Autonoma de Mexico the book consists of papers on a wide variety of topics related to the work of Professor Oziewicz which were presented at the special conference on Graph Operads Logic GOL 2021 selected through peer review to promote his scientific legacy Professor Oziewicz was a great enthusiast and supporter of category theory and its applications in physics as well as in various areas of mathematics topology noncommutative geometry etc In particular he made significant contributions to the theory of Frobenius algebras which now are becoming more important due to their connection with topological quantum field theories that are used in mathematical physics and in quantum topology Professor Oziewicz was a great and very generous teacher who immersed his students in the beautiful ideas of category theory as well as mathematical physics and computation It was his idea to start a series of conferences under the title Graphs Operads Logic most of them held in Mexico with some of them in the USA which were a great platform to discuss various ideas connected with category theory and its various applications and to make friends with other scientists Despite his passing the GOL 2021 conference is included in this series to pay tribute to his many contributions to diverse areas of science The book is laid out in twelve main topics where we can find relevant works from distinguished experts     Physics for Scientists and Engineers Raymond A. Serway, 2010     **Reeds Vol 13: Ship Stability,**

**Powering and Resistance** Jonathan Ridley, Christopher Patterson, 2021-08-05 This indispensable guide to ship stability covers essential topics such as flotation and buoyancy small angle large angle and longitudinal stability water density effects bilging ship resistance and advanced hydrostatics Each chapter has a comprehensive list of aims and objectives at the start of the topic followed by a checklist at the end of the topic for students to ensure that they have developed all the relevant skills before moving onto the next topic area The book features over 170 worked examples with fully explained solutions enabling students to work through the examples to build up their knowledge and develop the necessary key skills The worked examples which range in difficulty from very simple one step solutions to SQA standard exam questions and above are predominantly based on a hypothetical ship The reader is supplied with extracts from a typical data book for the ship which replicates those found on actual ships enabling the reader to develop and practise real life skills This edition has been fully updated in line with the recently changed rules and regulations around ship stability and the updated national exam syllabus Updates include corrections and clarifications to worked examples new text on damaged stability and probabilistic stability extra content on hydrostatic forces and centres of pressure and extra content on stability information for small craft

Mastering Autodesk 3ds Max Design 2011 Mark Gerhard, Jeffrey Harper, 2010-07-28 Autodesk's official guide to architectural visualization using 3ds Max Design Exclusively endorsed by Autodesk this comprehensive tutorial and reference thoroughly covers 3ds Max Design the 3D modeling animation and rendering software used for architectural visualizations It also includes essential material for students preparing for the new Certified Associate and Certified Professional exams

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**The Mechanical Universe** Richard P. Olenick, Tom M. Apostol, David L. Goodstein, 1985-08-30 This book studies electricity and magnetism light the special theory of relativity and modern physics

Variational and Extremum Principles in Macroscopic Systems Stanislaw Sieniutycz, Henrik Farkas, 2010-07-07 Recent years have seen a growing trend to derive models of macroscopic phenomena encountered in the fields of engineering physics chemistry ecology self organisation theory and econophysics from various variational or extremum principles Through the link between the integral extremum of a functional and the local extremum of a function explicit for example in the Pontryagin's maximum principle variational and extremum principles are mutually related Thus it makes sense to consider them within a common context The main goal of Variational and Extremum Principles in Macroscopic Systems is to collect various mathematical formulations and examples of physical reasoning that involve both basic theoretical aspects and applications of variational and extremum approaches to systems of the macroscopic world The first part of the book is focused on the theory whereas the second focuses on applications The unifying variational approach is used to derive the balance or conservation equations phenomenological equations linking fluxes and forces equations of change for processes with coupled transfer of energy and substance and optimal conditions for energy management A unique multidisciplinary synthesis of variational and extremum principles in theory and application A comprehensive review of current and past achievements in variational formulations for macroscopic processes Uses Lagrangian and Hamiltonian formalisms as a basis for the exposition of novel approaches to transfer and conversion of thermal solar and chemical energy

*Student Study Guide and Selected Solutions Manual, Volume 2* Bo Lou, 2006-05

*Monarch Review Notes in Master Problem Solving in Calculus* William King Benton, 1963

**Evaluation Program for Physics : Principles and Problems** Henry P. Keller, 1982

*American Journal of Physics*, 2005

*Theoretical Lattice Energy Determinations of Calcite-structure Metal Carbonates in the Pure and Binary Solution Phase* Gregory Keith Mandell, 1997

**Introductory Statistics** Neil A. Weiss, 1995 Weiss Introductory Statistics is intended for a one or two semester introductory statistics course Students learn the core statistical concepts in an applied setting and can access more advanced topics multiple regression ANOVA and Experimental Design through chapters available on the WeissStat CD With advances in technology and new insights into the practice of teaching statistics the sixth edition can now

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