

Solving Physics

UNIT 10: Worksheet 3

Fig 2.10

For each of the problems below, carefully draw a free diagram of the system and solve the problem.

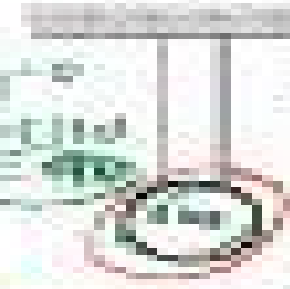
1. Determine the tension in each of the strings A and B in Fig 2.11

Case 1:



$F_A = 200g$
 $F_A = 200 \times 10 = 2000$
 $F_A = 2000$

Case 2:



$F_B = 200g$
 $F_B = 200 \times 10 = 2000$
 $F_B = 2000$
 $F_C = 200g$
 $F_C = 200 \times 10 = 2000$
 $F_C = 2000$

2. Calculate the tension in each of the strings in Fig 2.12. Assume that the strings are light and inextensible.



$F_B = 200g$
 $F_B = 200 \times 10 = 2000$
 $F_B = 2000$
 $F_C = 200g$
 $F_C = 200 \times 10 = 2000$
 $F_C = 2000$



3. Two objects, having masses of 200g and 300g, are suspended from the ceiling by the arrangement of strings shown in Fig 2.13.



$F_A = 200g$
 $F_A = 200 \times 10 = 2000$
 $F_A = 2000$
 $F_B = 300g$
 $F_B = 300 \times 10 = 3000$
 $F_B = 3000$

4. Repeat the problem above, but this time assume that the strings are light and inextensible.

$F_A = 200g$
 $F_A = 200 \times 10 = 2000$
 $F_A = 2000$
 $F_B = 300g$
 $F_B = 300 \times 10 = 3000$
 $F_B = 3000$

Modeling Workshop Project Physics Unit Wwdhd

Sebastian Brünink



Modeling Workshop Project Physics Unit Wwwwdhd:

The Physics Suite: Workshop Physics Activity Guide, Module 4 Priscilla W. Laws, 2004-06-07 The Workshop Physics Activity Guide is a set of student workbooks designed to serve as the foundation for a two semester calculus based introductory physics course It consists of 28 units that interweave text materials with activities that include prediction qualitative observation explanation equation derivation mathematical modeling quantitative experiments and problem solving Students use a powerful set of computer tools to record display and analyze data as well as to develop mathematical models of physical phenomena The design of many of the activities is based on the outcomes of physics education research The Workshop Physics Activity Guide is supported by an Instructor's Website that 1 describes the history and philosophy of the Workshop Physics Project 2 provides advice on how to integrate the Guide into a variety of educational settings 3 provides information on computer tools hardware and software and apparatus and 4 includes suggested homework assignments for each unit Log on to the Workshop Physics Project website at <https://www.dickinson.edu/homepage> Workshop Physics is a component of the Physics Suite a collection of materials created by a group of educational reformers known as the Activity Based Physics Group The Physics Suite contains a broad array of curricular materials that are based on physics education research including Understanding Physics by Cummings Laws Redish and Cooney an introductory textbook based on the best selling text by Halliday Resnick Walker RealTime Physics Laboratory Modules Physics by Inquiry intended for use in a workshop setting Interactive Lecture Demonstration Tutorials in Introductory Physics Activity Based Tutorials designed primarily for use in recitations

The book delves into Modeling Workshop Project Physics Unit Wwwdhd. Modeling Workshop Project Physics Unit Wwwdhd is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Modeling Workshop Project Physics Unit Wwwdhd, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Modeling Workshop Project Physics Unit Wwwdhd
- Chapter 2: Essential Elements of Modeling Workshop Project Physics Unit Wwwdhd
- Chapter 3: Modeling Workshop Project Physics Unit Wwwdhd in Everyday Life
- Chapter 4: Modeling Workshop Project Physics Unit Wwwdhd in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Modeling Workshop Project Physics Unit Wwwdhd. The first chapter will explore what Modeling Workshop Project Physics Unit Wwwdhd is, why Modeling Workshop Project Physics Unit Wwwdhd is vital, and how to effectively learn about Modeling Workshop Project Physics Unit Wwwdhd.

3. In chapter 2, this book will delve into the foundational concepts of Modeling Workshop Project Physics Unit Wwwdhd. The second chapter will elucidate the essential principles that must be understood to grasp Modeling Workshop Project Physics Unit Wwwdhd in its entirety.

4. In chapter 3, the author will examine the practical applications of Modeling Workshop Project Physics Unit Wwwdhd in daily life. This chapter will showcase real-world examples of how Modeling Workshop Project Physics Unit Wwwdhd can be effectively utilized in everyday scenarios.

5. In chapter 4, the author will scrutinize the relevance of Modeling Workshop Project Physics Unit Wwwdhd in specific contexts. This chapter will explore how Modeling Workshop Project Physics Unit Wwwdhd is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, the author will draw a conclusion about Modeling Workshop Project Physics Unit Wwwdhd. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Modeling Workshop Project Physics Unit Wwwdhd.

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