

2-2.

If $\theta = 40^\circ$ and $F = 400 \text{ N}$, determine the magnitude of the resultant force and its direction, measured counterclockwise from the positive x axis.

SOLUTION

The parallelogram law of addition and the triangle rule are shown in Figs. a and b, respectively.

Applying the law of cosines to Fig. b,

$$F_R = \sqrt{700^2 + 400^2 - 2(700)(400)\cos 40^\circ} \\ = 497.00 \text{ N} \approx \mathbf{497 \text{ N}} \quad \text{Ans.}$$

This yields

$$\frac{\sin \alpha}{700} = \frac{\sin 40^\circ}{497.00} \quad \alpha = 55.19^\circ$$

Thus, the direction of angle ϕ of F_R measured counterclockwise from the positive x axis is

$$\phi = \alpha + 90^\circ = 55.19^\circ + 90^\circ = \mathbf{145^\circ} \quad \text{Ans.}$$



Statics Ch 7 Solution Manual

Todd Ruskell



Statics Ch 7 Solution Manual:

Student Solutions Manual for Tipler and Mosca's Physics for Scientists and Engineers, Sixth Edition: Chapters 1-20 Todd Ruskell, 2008 **Solutions Manual to Accompany Physics and Physics Classical and Modern [by] W. Edward Gettys, Frederick J. Keller, Malcolm J. Skove** Stanley Shepherd, 1989 **Electromagnetics for Engineers** Clayton R. Paul, 2004 This book covers the basic electromagnetic principles and laws from the standpoint of engineering applications focusing on time varying fields Numerous applications of the principles and law are given for engineering applications that are primarily drawn from digital system design and electromagnetic interference Electromagnetic Compatibility or EMC Clock speeds of digital systems are increasingly in the GHz range as are frequencies used in modern analog communication systems This increasing frequency content demands that more electrical engineers understand these fundamental electromagnetic principles and laws in order to design high speed and high frequency systems that will successfully operate **Mechanics of Solids and Structures** Roger T. Fenner, J.N. Reddy, Arun R. Srinivasa, 2025-08-29 The third edition of Mechanics of Solids and Structures makes use of computational methods such as the finite element method that has revolutionized the field to solve problems while retaining all the basic principles and foundational information needed for mastering advanced engineering mechanics principles and acquiring problem solving skills The authors have updated the text to include the integration of numerical approaches and MATLAB computer programs into the body of the text for carrying out analysis of truss beam and frame structures The third edition also offers an update to Chapters 1 through 4 as follows All material related to determinate trusses and cables is moved to Chapter 1 as most students most likely were introduced to these topics in a course on statics Thus Chapter 1 of the current edition is a review of statics The concepts of stress and strain and associated examples were moved from Chapter 1 to Chapter 2 with additional discussion of concepts and examples Chapter 3 in the new edition deals with stress strain relations with applications to determinate systems including trusses and thin walled pressure vessels Indeterminate trusses and associated computer implementation have been moved from Chapter 4 of the second edition to Chapter 7 of the current edition Other indeterminate systems from old Chapter 4 have been retained in new Chapter 4 The second major change is the updating of all the computational tools from FORTRAN to MATLAB and providing interactive tools i e APPs in Chapters 7 10 and 12 of the new edition All computational examples from Chapters 4 and 6 on trusses and beams of the second edition are consolidated into a new chapter Chapter 7 with numerous examples and applications of newly included TRUSS2d BEAM and FRAME2d APPs Chapter 7 also introduces finite element analysis of plane frames a new topic The authors have also added new examples and exercise problems throughout the book that allow students to practice and apply the concepts and formulas to solve problems **Student Solutions Manual** Charles T. Horngren, George Foster, Srikant M. Datar, Howard D. Teall, 1999-10-22 *Physics Volume 1: an Introduction Instructor's Solutions Manual* Walker, 2001-04 *Student Study*

Guide and Solutions Manual Bo Lou, 2002-08 *Study Guide and Student Solutions Manual to Accompany Physics for Scientists and Engineers*, by Serway Raymond A. Serway, Steven Van Wyk, 1996 *Fundamentals of Physics, Extended* David Halliday, Robert Resnick, Jearl Walker, 2013-08-05 The 10th edition of Halliday's *Fundamentals of Physics Extended* building upon previous issues by offering several new features and additions The new edition offers most accurate extensive and varied set of assessment questions of any course management program in addition to all questions including some form of question assistance including answer specific feedback to facilitate success The text also offers multimedia presentations videos and animations of much of the material that provide an alternative pathway through the material for those who struggle with reading scientific exposition Furthermore the book includes math review content in both a self study module for more in depth review and also in just in time math videos for a quick refresher on a specific topic The Halliday content is widely accepted as clear correct and complete The end of chapters problems are without peer The new design which was introduced in 9e continues with 10e making this new edition of Halliday the most accessible and reader friendly book on the market WileyPLUS sold separately from text **Student Solutions Manual for Introductory Statistics** Stephen Kokoska, 2008-06-27 This Guide offers students explanations of crucial concepts in each section of IPS plus detailed solutions to key text problems and stepped through models of important statistical techniques **MATLAB Essentials: Symbolic and Numeric Problem-Solving in Engineering** Lester W. Schmerr, Jr., 2025-11-19 This book introduces MATLAB as a direct problem solving tool where the many built in functions and commands of MATLAB can be used to perform even complex tasks In this mode MATLAB acts as a very advanced scientific calculator The primary purpose of this book is to teach the reader how to use the functions and commands of this calculator and when necessary how to save the problem solving steps so that the solution obtained can be re used or re evaluated under different conditions The book also introduces symbolic calculations extensively in addition to the traditional numerical methods found in other texts MATLAB was initially introduced as a numerical tool for linear algebra problems and over the years has extended those numerical capabilities significantly to many areas of science and engineering Consequently it is not surprising that most books retain a strong emphasis on numerical solutions and treat symbolic calculations only briefly if at all A key point is that while symbolic algebra can be used to solve problems symbolically it can also be used to make the formulation of problems much simpler even if the ultimate solution is found numerically Recognizing and demonstrating this important property of symbolic calculations is unique to this book Examines symbolic and numeric MATLAB tools with engineering examples of linear and nonlinear equations eigenvalue problems and differential equations **Student Solutions Manual, Tenth Edition, Cost Accounting, a Managerial Emphasis** Charles T. Horngren, Srikant M. Datar, 2000 Designed for student use this supplement contains fully worked out solutions for all of the even numbered questions and problems in the textbook This may be purchased with the instructor's permission *Hydraulics of Dams and Reservoirs* Fuat Şentürk, 1994 **Fluid**

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