



### PROBLEM 2.47

Two cables are tied together at  $C$  and are loaded as shown. Determine the tension ( $a$ ) in cable  $AC$ , ( $b$ ) in cable  $BC$ .

### SOLUTION

#### Free-Body Diagram



#### Force Triangle



$$W = mg = (50 \text{ kg})(9.81 \text{ m/s}^2) = 490 \text{ N}$$

Law of sines:

$$\frac{T_{AC}}{\sin 110^\circ} = \frac{T_{BC}}{\sin 30^\circ} = \frac{490 \text{ N}}{\sin 40^\circ}$$

$$(a) \quad T_{AC} = \frac{490 \text{ N}}{\sin 40^\circ} \sin 110^\circ \quad T_{AC} = 716 \text{ N} \blacktriangleleft$$

$$(b) \quad T_{BC} = \frac{490 \text{ N}}{\sin 40^\circ} \sin 30^\circ \quad T_{BC} = 381 \text{ N} \blacktriangleleft$$

# Beer Johnston Dynamics Vector Mechanics Solution Manual

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## **Beer Johnston Dynamics Vector Mechanics Solution Manual:**

**Vector Mechanics for Engineers** Ferdinand Pierre Beer, Elwood Russell Johnston, 1972      EBOOK: Vector Mechanics for Engineers: Dynamics (SI) Ferdinand Beer, E. Johnston, Phillip Cornwell, 2013-04-16 Continuing in the spirit of its successful previous editions the tenth edition of Beer Johnston Mazurek and Cornwell's Vector Mechanics for Engineers provides conceptually accurate and thorough coverage together with a significant refreshment of the exercise sets and online delivery of homework problems to your students Nearly forty percent of the problems in the text are changed from the previous edition The Beer Johnston textbooks introduced significant pedagogical innovations into engineering mechanics teaching The consistent accurate problem solving methodology gives your students the best opportunity to learn statics and dynamics At the same time the careful presentation of content unmatched levels of accuracy and attention to detail have made these texts the standard for excellence      *Dynamics - Formulas and Problems* Dietmar Gross, Wolfgang Ehlers, Peter Wriggers, Jörg Schröder, Ralf Müller, 2016-10-05 This book contains the most important formulas and more than 190 completely solved problems from Kinetics and Hydrodynamics It provides engineering students material to improve their skills and helps to gain experience in solving engineering problems Particular emphasis is placed on finding the solution path and formulating the basic equations Topics include Kinematics of a Point Kinetics of a Point Mass Dynamics of a System of Point Masses Kinematics of Rigid Bodies Kinetics of Rigid Bodies Impact Vibrations Non Inertial Reference Frames Hydrodynamics      **700 Solved Problems In Vector Mechanics for Engineers: Dynamics** Joseph F. Shelley, 1991-04 Suitable for 2nd year college and university engineering students this book provides them with a source of problems with solutions in vector mechanics that covers various aspects of the basic course It offers the comprehensive solved problem reference in the subject It also provides the student with the problem solving drill      **Solutions Manual to Accompany Vector Mechanics for Engineers** Ferdinand Pierre Beer, Elwood Russell Johnston, 1977      *Ebook: Vector Mechanics Engineering: Dynamics SI* BEER, 2010-12-16 *Ebook Vector Mechanics Engineering Dynamics SI*      **Ebook: Vector Mechanics for Engineers: Statics and Dynamics** BEER, 2010-10-16 *Ebook Vector Mechanics for Engineers Statics and Dynamics*      *Canadiana*, 1991-05      **EBOOK: Vector Mechanics for Engineers: Statics (SI units)** Ferdinand Beer, E. Johnston, David Mazurek, 2012-10-16 **Target Audience** This text is designed for the first course in Statics offered in the sophomore year **Overview** The main objective of a first course in mechanics should be to develop in the engineering student the ability to analyze any problem in a simple and logical manner and to apply to its solution a few well understood basic principles This text is designed to help the instructor achieve this goal Vector analysis is introduced early in the text and is used in the presentation and discussion of the fundamental principles of mechanics Vector methods are also used to solve many problems particularly three dimensional problems where these techniques result in a simpler and more concise solution The emphasis in this text however remains on the correct understanding of the principles of mechanics and on their

application to the solution of engineering problems and vector analysis is presented chiefly as a convenient tool. In order to achieve the goal of being able to analyze mechanics problems the text employs the following pedagogical strategy. Practical applications are introduced early. New concepts are introduced simply. Fundamental principles are placed in simple contexts. Students are given extensive practice through sample problems, special sections entitled Solving Problems on Your Own, extensive homework, problem sets, review problems at the end of each chapter, and computer problems designed to be solved with computational software. Resources Supporting This Textbook. Instructor's and Solutions Manual features typeset one per page solutions to the end of chapter problems. It also features a number of tables designed to assist instructors in creating a schedule of assignments for their course. The various topics covered in the text have been listed in Table I and a suggested number of periods to be spent on each topic has been indicated. Table II prepares a brief description of all groups of problems. Sample lesson schedules are shown in Tables III, IV, and V together with various alternative lists of assigned homework problems. For additional resources related to users of this SI edition please visit <http://www.mheducation.com/beerjohnston>. McGraw Hill Connect Engineering, a web-based assignment and assessment platform, is available at <http://www.mhhe.com/beerjohnston> and includes algorithmic problems from the text, Lecture PowerPoints, an image bank, and animations. Hands on Mechanics is a website designed for instructors who are interested in incorporating three-dimensional hands-on teaching aids into their lectures. Developed through a partnership between the McGraw Hill Engineering Team and the Department of Civil and Mechanical Engineering at the United States Military Academy at West Point, this website not only provides detailed instructions for how to build 3-D teaching tools using materials found in any lab or local hardware store but also provides a community where educators can share ideas, trade best practices, and submit their own original demonstrations for posting on the site. Visit <http://www.handsonmechanics.com>. McGraw Hill Tegrity, a service that makes class time available all the time by automatically capturing every lecture in a searchable format for students to review when they study and complete assignments. To learn more about Tegrity, watch a 2-minute Flash demo at <http://tegritycampus.mhhe.com>.

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*Mechanical Engineering News* ,1978      **Scientific and Technical Books in Print** ,1972      **Materials with Complex Behaviour II** Andreas Öchsner,Lucas F. M. da Silva,Holm Altenbach,2012-01-04 This volume highlights the latest developments and trends in advanced materials and their properties the modeling and simulation of non classical materials and structures and new technologies for joining materials It presents the developments of advanced materials and respective tools to characterize and predict the material properties and behavior      **American Book Publishing Record Cumulative 1998** R R Bowker Publishing,1999-03

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## **Table of Contents Beer Johnston Dynamics Vector Mechanics Solution Manual**

1. Understanding the eBook Beer Johnston Dynamics Vector Mechanics Solution Manual
  - The Rise of Digital Reading Beer Johnston Dynamics Vector Mechanics Solution Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Beer Johnston Dynamics Vector Mechanics Solution Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Beer Johnston Dynamics Vector Mechanics Solution Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Beer Johnston Dynamics Vector Mechanics Solution Manual
  - Personalized Recommendations
  - Beer Johnston Dynamics Vector Mechanics Solution Manual User Reviews and Ratings
  - Beer Johnston Dynamics Vector Mechanics Solution Manual and Bestseller Lists
5. Accessing Beer Johnston Dynamics Vector Mechanics Solution Manual Free and Paid eBooks
  - Beer Johnston Dynamics Vector Mechanics Solution Manual Public Domain eBooks
  - Beer Johnston Dynamics Vector Mechanics Solution Manual eBook Subscription Services
  - Beer Johnston Dynamics Vector Mechanics Solution Manual Budget-Friendly Options
6. Navigating Beer Johnston Dynamics Vector Mechanics Solution Manual eBook Formats

- ePub, PDF, MOBI, and More
- Beer Johnston Dynamics Vector Mechanics Solution Manual Compatibility with Devices
- Beer Johnston Dynamics Vector Mechanics Solution Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Beer Johnston Dynamics Vector Mechanics Solution Manual
  - Highlighting and Note-Taking Beer Johnston Dynamics Vector Mechanics Solution Manual
  - Interactive Elements Beer Johnston Dynamics Vector Mechanics Solution Manual
- 8. Staying Engaged with Beer Johnston Dynamics Vector Mechanics Solution Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Beer Johnston Dynamics Vector Mechanics Solution Manual
- 9. Balancing eBooks and Physical Books Beer Johnston Dynamics Vector Mechanics Solution Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Beer Johnston Dynamics Vector Mechanics Solution Manual
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Beer Johnston Dynamics Vector Mechanics Solution Manual
  - Setting Reading Goals Beer Johnston Dynamics Vector Mechanics Solution Manual
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Beer Johnston Dynamics Vector Mechanics Solution Manual
  - Fact-Checking eBook Content of Beer Johnston Dynamics Vector Mechanics Solution Manual
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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