



### 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



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

Law of sines:

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

(a)

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

$$T_{AC} = 716 \text{ N} \quad \blacktriangleleft$$

(b)

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

$$T_{BC} = 381 \text{ N} \quad \blacktriangleleft$$

# Vector Mechanics Solution Manual Statics

**Yohannes Ketema**



## **Vector Mechanics Solution Manual Statics:**

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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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This book delves into Vector Mechanics Solution Manual Statics. Vector Mechanics Solution Manual Statics is a crucial topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Vector Mechanics Solution Manual Statics, encompassing both the fundamentals and more intricate discussions.

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## **Table of Contents Vector Mechanics Solution Manual Statics**

1. Understanding the eBook Vector Mechanics Solution Manual Statics
  - The Rise of Digital Reading Vector Mechanics Solution Manual Statics
  - Advantages of eBooks Over Traditional Books
2. Identifying Vector Mechanics Solution Manual Statics
  - 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 Vector Mechanics Solution Manual Statics
  - User-Friendly Interface
4. Exploring eBook Recommendations from Vector Mechanics Solution Manual Statics
  - Personalized Recommendations
  - Vector Mechanics Solution Manual Statics User Reviews and Ratings
  - Vector Mechanics Solution Manual Statics and Bestseller Lists
5. Accessing Vector Mechanics Solution Manual Statics Free and Paid eBooks
  - Vector Mechanics Solution Manual Statics Public Domain eBooks
  - Vector Mechanics Solution Manual Statics eBook Subscription Services
  - Vector Mechanics Solution Manual Statics Budget-Friendly Options
6. Navigating Vector Mechanics Solution Manual Statics eBook Formats
  - ePub, PDF, MOBI, and More
  - Vector Mechanics Solution Manual Statics Compatibility with Devices
  - Vector Mechanics Solution Manual Statics Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Vector Mechanics Solution Manual Statics
  - Highlighting and Note-Taking Vector Mechanics Solution Manual Statics
  - Interactive Elements Vector Mechanics Solution Manual Statics

8. Staying Engaged with Vector Mechanics Solution Manual Statics
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Vector Mechanics Solution Manual Statics
9. Balancing eBooks and Physical Books Vector Mechanics Solution Manual Statics
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Vector Mechanics Solution Manual Statics
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Vector Mechanics Solution Manual Statics
  - Setting Reading Goals Vector Mechanics Solution Manual Statics
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Vector Mechanics Solution Manual Statics
  - Fact-Checking eBook Content of Vector Mechanics Solution Manual Statics
  - 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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