



### PROBLEM 2.41

Determine (a) the required tension in cable  $AC$ , knowing that the resultant of the three forces exerted at Point  $C$  of boom  $BC$  must be directed along  $BC$ , (b) the corresponding magnitude of the resultant.

### SOLUTION



Using the  $x$  and  $y$  axes shown:

$$R_x = \Sigma F_x = T_{AC} \sin 10^\circ + (50 \text{ lb}) \cos 35^\circ + (75 \text{ lb}) \cos 60^\circ = T_{AC} \sin 10^\circ + 78.458 \text{ lb} \quad (1)$$

$$R_y = \Sigma F_y = (50 \text{ lb}) \sin 35^\circ + (75 \text{ lb}) \sin 60^\circ - T_{AC} \cos 10^\circ = 93.631 \text{ lb} - T_{AC} \cos 10^\circ \quad (2)$$

(a) Set  $R_y = 0$  in Eq. (2):

$$93.631 \text{ lb} - T_{AC} \cos 10^\circ = 0 \quad T_{AC} = 95.1 \text{ lb} \blacktriangleleft$$

(b) Substituting for  $T_{AC}$  in Eq. (1):

$$R_x = (95.075 \text{ lb}) \sin 10^\circ + 78.458 \text{ lb} = 94.968 \text{ lb} \\ R = R_x \quad R = 95.0 \text{ lb} \blacktriangleleft$$

# Beer Statics Solution 9th

**Christian G. Meyer**



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## **Table of Contents Beer Statics Solution 9th**

1. Understanding the eBook Beer Statics Solution 9th
  - The Rise of Digital Reading Beer Statics Solution 9th
  - Advantages of eBooks Over Traditional Books
2. Identifying Beer Statics Solution 9th
  - 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 Statics Solution 9th
  - User-Friendly Interface
4. Exploring eBook Recommendations from Beer Statics Solution 9th
  - Personalized Recommendations
  - Beer Statics Solution 9th User Reviews and Ratings
  - Beer Statics Solution 9th and Bestseller Lists
5. Accessing Beer Statics Solution 9th Free and Paid eBooks

- Beer Statics Solution 9th Public Domain eBooks
  - Beer Statics Solution 9th eBook Subscription Services
  - Beer Statics Solution 9th Budget-Friendly Options
6. Navigating Beer Statics Solution 9th eBook Formats
    - ePub, PDF, MOBI, and More
    - Beer Statics Solution 9th Compatibility with Devices
    - Beer Statics Solution 9th Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Beer Statics Solution 9th
    - Highlighting and Note-Taking Beer Statics Solution 9th
    - Interactive Elements Beer Statics Solution 9th
  8. Staying Engaged with Beer Statics Solution 9th
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Beer Statics Solution 9th
  9. Balancing eBooks and Physical Books Beer Statics Solution 9th
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Beer Statics Solution 9th
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Beer Statics Solution 9th
    - Setting Reading Goals Beer Statics Solution 9th
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Beer Statics Solution 9th
    - Fact-Checking eBook Content of Beer Statics Solution 9th
    - 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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set this parameter equal to yes default if the substructure eigenproblem needs to be solved during substructure generation in abaqus substructure eigenvectors can be used to define substructure modal damping for a given substructure abaqus standard will evaluate the stiffness associated with frequency dependent springs and dashpots at

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