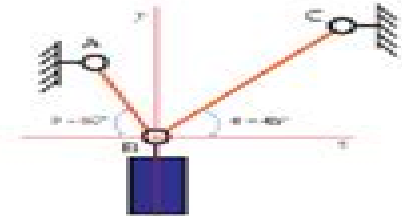


Problem 1

Given:

Two cables support a weight of 5 kN as shown in the diagram above. Determine the force in each cable. Be sure to draw an FBD. Write any set up work by hand on paper, but use the Mathcad Solve Block to find the values of F_A & F_B . Take a screenshot of the solve block and include it in your solution of the problem.

Required:

force in each cable

Solution:

$$\theta_a = 60 \text{ deg} \quad \theta_c = 45 \text{ deg}$$

$$F_{ax} = 5000 \text{ N} \quad F_{ay} = 0 \text{ N}$$

Guess Values

$$F_a := 100 \text{ N}$$

$$F_c := 100 \text{ N}$$

Constraints

$$-F_a \cdot \cos(\theta_a) + F_c \cdot \cos(\theta_c) = 0 \text{ N}$$

$$F_a \cdot \sin(\theta_a) + F_c \cdot \sin(\theta_c) - F_{ay} = 0 \text{ N}$$

Solve

$$\begin{bmatrix} F_{ax} \\ F_{ay} \end{bmatrix} := \text{find}(F_a, F_c) = \begin{bmatrix} 3.66 \\ 2.588 \end{bmatrix} \text{ kN}$$

Discussion:

I was able to solve the problem by using the given weight of 5000 N and knowing the angle values of 60 degrees and 45 degrees. Using this I guessed values for F_a and F_c , and I was able to solve for the actual values of F_a and F_c . I know that my answer is reasonable because the combined value of F_a and F_c is greater than 5kN which is necessary so that the cables don't and drop the box.

Smartphysics Mechanics Homework Solutions

Daniela Niemeyer



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1. Understanding the eBook Smartphysics Mechanics Homework Solutions
 - The Rise of Digital Reading Smartphysics Mechanics Homework Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Smartphysics Mechanics Homework Solutions
 - 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 Smartphysics Mechanics Homework Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Smartphysics Mechanics Homework Solutions
 - Personalized Recommendations
 - Smartphysics Mechanics Homework Solutions User Reviews and Ratings
 - Smartphysics Mechanics Homework Solutions and Bestseller Lists

5. Accessing Smartphysics Mechanics Homework Solutions Free and Paid eBooks
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 - Smartphysics Mechanics Homework Solutions Budget-Friendly Options
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 - Smartphysics Mechanics Homework Solutions Compatibility with Devices
 - Smartphysics Mechanics Homework Solutions Enhanced eBook Features
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 - Highlighting and Note-Taking Smartphysics Mechanics Homework Solutions
 - Interactive Elements Smartphysics Mechanics Homework Solutions
8. Staying Engaged with Smartphysics Mechanics Homework Solutions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Smartphysics Mechanics Homework Solutions
9. Balancing eBooks and Physical Books Smartphysics Mechanics Homework Solutions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Smartphysics Mechanics Homework Solutions
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Smartphysics Mechanics Homework Solutions
 - Setting Reading Goals Smartphysics Mechanics Homework Solutions
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Smartphysics Mechanics Homework Solutions
 - Fact-Checking eBook Content of Smartphysics Mechanics Homework Solutions
 - 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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