

Mechanical Engineering Science past paper questions (statics and stress):

2016:

Question B1

- a) The truss shown in Figure QB1 is used to support a balcony, and is subjected to $P_1 = 60\text{kN}$ and $P_2 = 40\text{kN}$. Calculate the force in each member of the truss, stating whether the members are in tension or compression.

[12 marks]

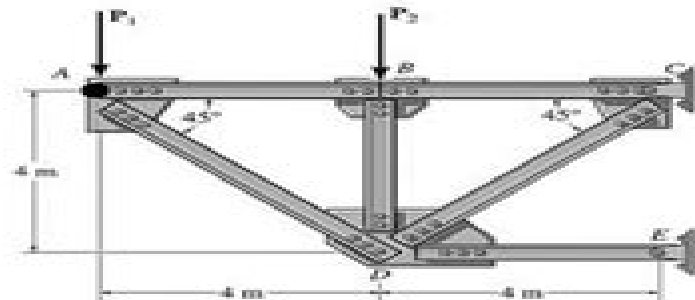


Figure QB1

- b) A boat sits on a slipway that is inclined at 20° to the horizontal. The boat is attached to a winch at the top of the slope via a cable that is parallel to the slope. If the boat weighs 2000kg , and $\mu_s = 0.3$ between the boat and the slipway, calculate what tension is required in the cable to initiate the movement of the boat up the slope. (Take gravity as 9.81 ms^{-2}).

[8 marks]

Answers:

B1a $AD = -84.85\text{kN}$ (C), $AB = 60\text{kN}$ (T), $BD = -40\text{kN}$ (C), $DC = 141.44\text{kN}$ (T), $DE = -160\text{kN}$ (C).

B1b Tension required = 12.24kN

Engineering Science Past Exam Questions

Michael Brown



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Table of Contents Engineering Science Past Exam Questions

1. Understanding the eBook Engineering Science Past Exam Questions
 - The Rise of Digital Reading Engineering Science Past Exam Questions
 - Advantages of eBooks Over Traditional Books
2. Identifying Engineering Science Past Exam Questions
 - 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 Engineering Science Past Exam Questions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Engineering Science Past Exam Questions
 - Personalized Recommendations
 - Engineering Science Past Exam Questions User Reviews and Ratings

- Engineering Science Past Exam Questions and Bestseller Lists
- 5. Accessing Engineering Science Past Exam Questions Free and Paid eBooks
 - Engineering Science Past Exam Questions Public Domain eBooks
 - Engineering Science Past Exam Questions eBook Subscription Services
 - Engineering Science Past Exam Questions Budget-Friendly Options
- 6. Navigating Engineering Science Past Exam Questions eBook Formats
 - ePub, PDF, MOBI, and More
 - Engineering Science Past Exam Questions Compatibility with Devices
 - Engineering Science Past Exam Questions Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Engineering Science Past Exam Questions
 - Highlighting and Note-Taking Engineering Science Past Exam Questions
 - Interactive Elements Engineering Science Past Exam Questions
- 8. Staying Engaged with Engineering Science Past Exam Questions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Engineering Science Past Exam Questions
- 9. Balancing eBooks and Physical Books Engineering Science Past Exam Questions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Engineering Science Past Exam Questions
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Engineering Science Past Exam Questions
 - Setting Reading Goals Engineering Science Past Exam Questions
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Engineering Science Past Exam Questions
 - Fact-Checking eBook Content of Engineering Science Past Exam Questions
 - 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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