The platform assembly shown in the figure has a weight W₁ = 1kN and center of gravity at G₁. If it is intended to support a maximum load W₂ = 1.6kN a placed at point G₂. Determine the smallest counterweight W that should be placed at B in order to prevent the platform from tipping over.

Take a = 0.5m, b = 3m, c = 0.5m, d = 4m, e = 3m and f = 1m



- A. W = 159 N upwards
- B. W = 653 N upwards
- C. W = 357 N downwards
- D. W = 314 N downwards
- E. W = 592 N downwards

Solution

The correct answer is D.

The platform assembly shown in the figure has a weight $W_1 = 1kN$ and center of gravity at G_1 . If it is intended to support a maximum load $W_2 = 1.6kN$ a placed at point G_2 , determine the smallest counterweight W that should be placed at B in order to prevent the platform from tipping over.

Take a = 0.5m, b = 3m, c = 0.5m, d = 4m, e = 3m and f = 1m

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Table of Contents Nengineering Study Guide

- 1. Understanding the eBook Nengineering Study Guide
 - The Rise of Digital Reading Nengineering Study Guide
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Nengineering Study Guide
 - 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 Nengineering Study Guide
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Nengineering Study Guide
 - Personalized Recommendations
 - Nengineering Study Guide User Reviews and Ratings

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

- 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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