

SOLUTION:

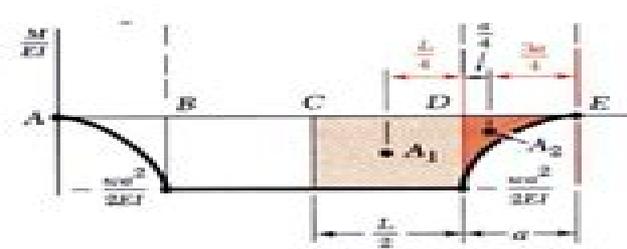
- Determine the reactions at supports.

$$R_B = R_D = wa$$

- Construct shear, bending moment and (M/EI) diagrams.

$$A_1 = -\frac{wa^2}{2EI} \left(\frac{L}{2} \right) = -\frac{wa^2L}{4EI}$$

$$A_2 = -\frac{1}{3} \left(\frac{wa^2}{2EI} \right) (a) = -\frac{wa^3}{6EI}$$



- Slope at E:

$$\theta_E = \theta_C + \theta_{E/C} = \theta_{E/C}$$

$$= A_1 + A_2 = -\frac{wa^2L}{4EI} - \frac{wa^3}{6EI}$$

$$\theta_E = -\frac{wa^2}{12EI} (3L + 2a)$$

- Deflection at E:

$$y_E = t_{E/C} - t_{D/C}$$

$$= \left[A_1 \left(a + \frac{L}{4} \right) + A_2 \left(\frac{3a}{4} \right) \right] - \left[A_1 \left(\frac{L}{4} \right) \right]$$

$$= \left[-\frac{wa^3L}{4EI} - \frac{wa^2L^2}{16EI} - \frac{wa^4}{8EI} \right] - \left[-\frac{wa^2L^2}{16EI} \right]$$

$$y_E = -\frac{wa^3}{8EI} (2L + a)$$



Introduction To Structural Mechanics And Analysis

Wenbin Ji

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Table of Contents Introduction To Structural Mechanics And Analysis

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

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