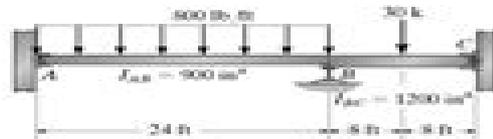


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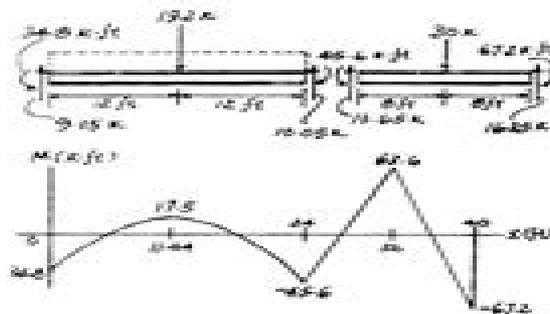
12-1. Determine the moments at *A*, *B*, and *C*, then draw the moment diagram for the beam. The moment of inertia of each span is indicated in the figure. Assume the support at *B* is a roller and *A* and *C* are fixed. $E = 29(10^3)$ ksi.



$$\begin{aligned} (DF)_{BA} &= 0 & (DF)_{BC} &= \frac{0.75I_{BC}/24}{0.75I_{BC}/24 + I_{AB}/16} = 0.3333 \\ (DF)_{BC} &= 0.6667 & (DF)_{CB} &= 0 \\ (FEM)_{BA} &= \frac{-0.8(24)^2}{12} = -38.4 \text{ k}\cdot\text{ft} \\ (FEM)_{AB} &= 38.4 \text{ k}\cdot\text{ft} \\ (FEM)_{BC} &= -\frac{30(8)}{8} = -30.0 \text{ k}\cdot\text{ft} \\ (FEM)_{CB} &= 60.0 \text{ k}\cdot\text{ft} \end{aligned}$$

Joint	A	B	C
Member	AB	BA	BC
DF	0	0.3333	0.6667
FEM	-38.4	38.4	60.0
LM	-34.8	45.6	67.2

$$\begin{aligned} M_{AB} &= -34.8 \text{ k}\cdot\text{ft} & \text{Ans} \\ M_{BA} &= 45.6 \text{ k}\cdot\text{ft} & \text{Ans} \\ M_{BC} &= -45.6 \text{ k}\cdot\text{ft} & \text{Ans} \\ M_{CB} &= 67.2 \text{ k}\cdot\text{ft} & \text{Ans} \end{aligned}$$



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Jicheng Xie



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Table of Contents Structural Analysis Rc Hibbeler 6th Edition Solution

1. Understanding the eBook Structural Analysis Rc Hibbeler 6th Edition Solution
 - The Rise of Digital Reading Structural Analysis Rc Hibbeler 6th Edition Solution
 - Advantages of eBooks Over Traditional Books
2. Identifying Structural Analysis Rc Hibbeler 6th Edition Solution
 - 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 Structural Analysis Rc Hibbeler 6th Edition Solution
 - User-Friendly Interface
4. Exploring eBook Recommendations from Structural Analysis Rc Hibbeler 6th Edition Solution

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

- Fact-Checking eBook Content of Structural Analysis Rc Hibbeler 6th Edition Solution
 - 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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