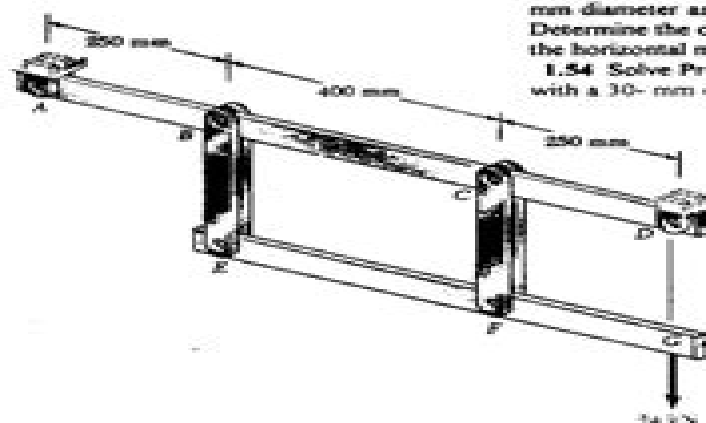


PROBLEM 1.54

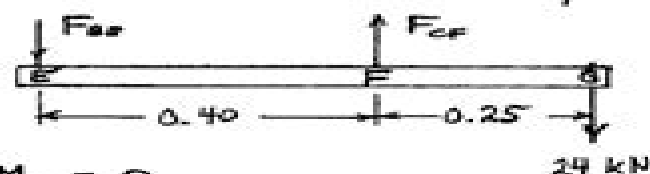


1.53 Each of the two vertical links CF connecting the two horizontal members AD and EG has a 10×40 -mm uniform rectangular cross section and is made of a steel with an ultimate strength in tension of 400 MPa, while each of the pins at C and F has a 20-mm diameter and is made of a steel with an ultimate strength in shear of 150 MPa. Determine the overall factor of safety for the links CF and the pins connecting them to the horizontal members.

1.54 Solve Prob. 1.53, assuming that the pins at C and F have been replaced by pins with a 30-mm diameter.

SOLUTION

Use member EFG as free body.



$$\sum M_E = 0$$

$$0.40 F_{CF} - (0.65)(24 \times 10^3) = 0$$

$$F_{CF} = 39 \times 10^3 \text{ N}$$

Based on tension in links CF

$$A = (b - d)t = (0.040 - 0.030)(0.010) = 100 \times 10^{-6} \text{ m}^2 \text{ (one link)}$$

$$F_u = 2 \sigma_u A = (2)(400 \times 10^6)(100 \times 10^{-6}) = 80.0 \times 10^3 \text{ N}$$

Based on double shear in pins

$$A = \frac{\pi}{4} d^2 = \frac{\pi}{4} (0.030)^2 = 706.86 \times 10^{-6} \text{ m}^2$$

$$F_u = 2 \tau_u A = (2)(150 \times 10^6)(706.86 \times 10^{-6}) = 212.06 \times 10^3 \text{ N}$$

Actual F_u is smaller value, i.e. $F_u = 80.0 \times 10^3 \text{ N}$

Factor of safety $F.S. = \frac{F_u}{F_{CF}} = \frac{80.0 \times 10^3}{39 \times 10^3} = 2.05$

Johnston 60sweeper Manual

M Mark



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Table of Contents Johnston 60sweeper Manual

1. Understanding the eBook Johnston 60sweeper Manual
 - The Rise of Digital Reading Johnston 60sweeper Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Johnston 60sweeper Manual
 - 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 Johnston 60sweeper Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Johnston 60sweeper Manual
 - Personalized Recommendations
 - Johnston 60sweeper Manual User Reviews and Ratings
 - Johnston 60sweeper Manual and Bestseller Lists
5. Accessing Johnston 60sweeper Manual Free and Paid eBooks
 - Johnston 60sweeper Manual Public Domain eBooks
 - Johnston 60sweeper Manual eBook Subscription Services
 - Johnston 60sweeper Manual Budget-Friendly Options

6. Navigating Johnston 60sweeper Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Johnston 60sweeper Manual Compatibility with Devices
 - Johnston 60sweeper Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Johnston 60sweeper Manual
 - Highlighting and Note-Taking Johnston 60sweeper Manual
 - Interactive Elements Johnston 60sweeper Manual
8. Staying Engaged with Johnston 60sweeper Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Johnston 60sweeper Manual
9. Balancing eBooks and Physical Books Johnston 60sweeper Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Johnston 60sweeper Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Johnston 60sweeper Manual
 - Setting Reading Goals Johnston 60sweeper Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Johnston 60sweeper Manual
 - Fact-Checking eBook Content of Johnston 60sweeper Manual
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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- Interactive and Gamified eBooks

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