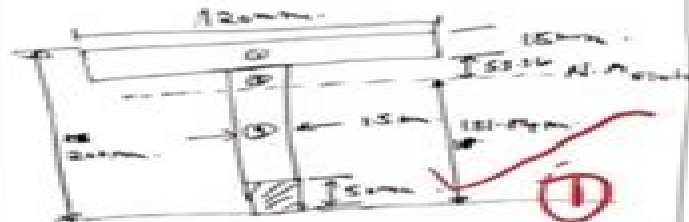


EMG 4103 Solid and Structural Mechanics III Assignment Two Marking Scheme

Assignment 2

Plastic deformation



$$\sigma_y = 240 \text{ MPa}$$

Soln:

1st Find $\bar{y}$ from elastic N.A and then find I_{xx} .

$$\bar{y} = \frac{0 + (185 \times 15 \times 92.5) + (120 \times 15 \times 192.5)}{(185 \times 15) + (120 \times 15)} \\ = \frac{0 + 256687.5 + 346500}{2775 + 1800} = \frac{603187.5}{4575} \\ \bar{y} = 131.84 \text{ mm}$$

$$I_{xx \text{ (1)}} = \frac{120 \times 15^3}{12} + 1800 (192.5 - 131.84)^2 \\ = 6.6571 \times 10^{-6} \text{ m}^4$$

$$I_{xx \text{ (2)}} = \frac{15 \times 32.16^3}{12} + (15 \times 32.16) \times \left(\frac{15}{2} - 131.84 \right)^2 \\ = 0.7511 \times 10^{-6} \text{ m}^4$$

$$I_{xx \text{ (3)}} = \left[\frac{185 \times 15^3}{12} + (185 \times 15) \times \left(\frac{15}{2} - 131.84 \right)^2 \right] + \left[\frac{120 \times 15^3}{12} + (120 \times 15) \times \left(\frac{15}{2} - 131.84 \right)^2 \right] \\ = 2.9949 \times 10^{-6} \text{ m}^4$$

$$I_{xx} = \text{①} + \text{②} + \text{③} \\ = 10.4031 \times 10^{-6} \text{ m}^4$$

$$M_p = \frac{\sigma_y I_{xx}}{\bar{y}_{max}} \quad [\text{maximum elastic moment}] \\ = \frac{240 \times 10.4031 \times 10^{-6}}{131.84 \times 10^{-3}} = 1.8907 \times 10^3 \text{ N}\cdot\text{m}$$

Plastic neutral axis $\bar{y}_p$

$$\bar{y}_p \times 15 = \frac{1}{2} [2775 + 1800] \\ \bar{y}_p = \frac{2287.5}{15} = 152.5 \text{ mm}$$



$$M_{fp} = \left[\sigma_y \cdot (185 \times 15) \times \left(\frac{15}{2} - 152.5 \right) + \sigma_y \cdot (120 \times 15) \times \left(\frac{15}{2} - 152.5 \right) \right] \times 10^{-3} \\ = \sigma_y \cdot [7200 + 7920 - 8775 + 1740 + 21875] \times 10^{-3} \\ = 2.5434 \times 10^4 \text{ N}\cdot\text{m}$$

$$\text{Factor} = \frac{M_{fp}}{M_p} = \frac{2.5434 \times 10^4}{1.8907 \times 10^3} = 13.45$$

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Siddappa N.Byrareddy



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Table of Contents Mechanics Marking Scheme 201974may June

1. Understanding the eBook Mechanics Marking Scheme 201974may June
 - The Rise of Digital Reading Mechanics Marking Scheme 201974may June
 - Advantages of eBooks Over Traditional Books
2. Identifying Mechanics Marking Scheme 201974may June
 - 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 Mechanics Marking Scheme 201974may June
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mechanics Marking Scheme 201974may June
 - Personalized Recommendations
 - Mechanics Marking Scheme 201974may June User Reviews and Ratings
 - Mechanics Marking Scheme 201974may June and Bestseller Lists

5. Accessing Mechanics Marking Scheme 201974may June Free and Paid eBooks
 - Mechanics Marking Scheme 201974may June Public Domain eBooks
 - Mechanics Marking Scheme 201974may June eBook Subscription Services
 - Mechanics Marking Scheme 201974may June Budget-Friendly Options
6. Navigating Mechanics Marking Scheme 201974may June eBook Formats
 - ePub, PDF, MOBI, and More
 - Mechanics Marking Scheme 201974may June Compatibility with Devices
 - Mechanics Marking Scheme 201974may June Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mechanics Marking Scheme 201974may June
 - Highlighting and Note-Taking Mechanics Marking Scheme 201974may June
 - Interactive Elements Mechanics Marking Scheme 201974may June
8. Staying Engaged with Mechanics Marking Scheme 201974may June
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mechanics Marking Scheme 201974may June
9. Balancing eBooks and Physical Books Mechanics Marking Scheme 201974may June
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mechanics Marking Scheme 201974may June
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mechanics Marking Scheme 201974may June
 - Setting Reading Goals Mechanics Marking Scheme 201974may June
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mechanics Marking Scheme 201974may June
 - Fact-Checking eBook Content of Mechanics Marking Scheme 201974may June
 - 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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