

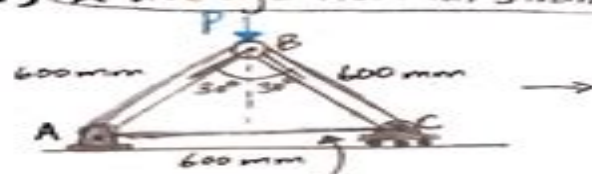
2.5) \star strain in each wire?

$$L'_{AC} = \sqrt{300^2 + 2^2 - 2(300)(2)\cos(150^\circ)}$$

$$L'_{AC} = 301.734 \text{ mm}$$

$$L_{AC} = 300 \text{ mm}$$

$$\epsilon_{AC} = \epsilon_{AB} = \frac{L'_{AC} - L_{AC}}{L_{AC}} = \frac{301.734 - 300}{300} = \frac{0.00578 \text{ mm}}{\text{mm}}$$

2.7) \star average normal strain in wire AC?

$$L_{AC} = 2(600 \sin 30^\circ)$$

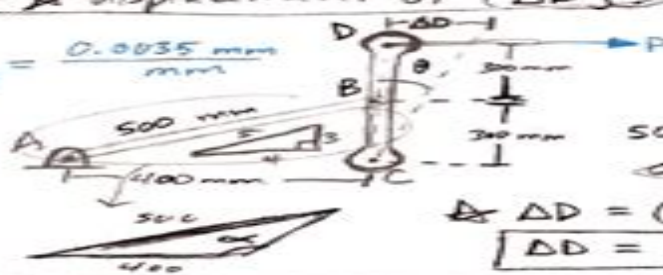
$$L'_{AC} = L_{AC'} = 2(600 \sin 30.2^\circ)$$

$$\epsilon_{(AVG)}_{AC} = \frac{L_{AC'} - L_{AC}}{L_{AC}}$$

$$(\epsilon_{AVG})_{AC} = \frac{6.04 \times 10^{-3} \text{ mm}}{\text{mm}}$$

2.9) \star displacement of (ΔD) ?

$$\epsilon_{AB} = \frac{0.0035 \text{ mm}}{\text{mm}}$$



$$AB' = AB + \epsilon_{AB} AB$$

$$AB' = 500 + (0.0035)(500) = 501.75 \text{ mm}$$

$$501.75 = 300^2 + 400^2 - 2(300)(400)\cos(\alpha)$$

$$\alpha = 90.4185^\circ$$

$$\star \theta = \alpha - 90^\circ$$

$$\star \Delta D = (600 \text{ mm}) \left(\frac{0.4185\pi}{180} \text{ rad} \right)$$

$$\Delta D = 4.38 \text{ mm}$$

$$\theta = 0.4185^\circ$$

$$\theta = \frac{0.4185\pi}{180} [\text{rad}]$$

2.17) \star shear strain at point G w/ respect to x' and y' axes?

$$\epsilon_{AB} = \epsilon_{AF} = 0$$

$$\gamma_{xy} = 0.0075 \text{ rad}$$

$$(\gamma_G)_{x'y'} = 90^\circ - \theta = \frac{\pi}{2} - \theta$$

$$\psi = 90^\circ - \gamma_{xy} = 89.5703^\circ = \psi$$

$$\beta = 90^\circ + \gamma_{xy} = 90.4297^\circ = \beta$$

$$L_{GF'} = \sqrt{600^2 + 300^2 - 2(600)(300)\cos(\psi)}$$

$$L_{GF'} = 668.2049 \text{ mm}$$

$$L_{GC'} = \sqrt{600^2 + 300^2 - 2(600)(300)\cos(\beta)}$$

$$L_{GC'} = 672.8298 \text{ mm}$$

$$\star \text{cosine law}$$

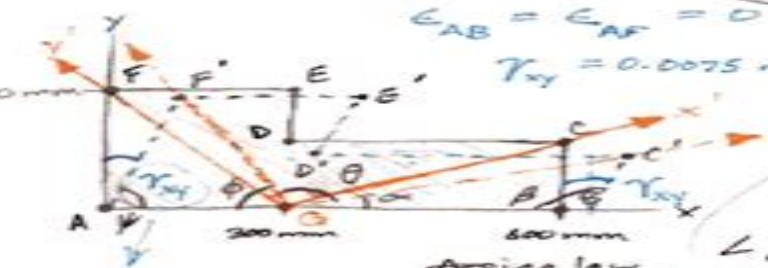
$$\star \text{sine law}$$

$$\frac{\sin \phi}{600} = \frac{\sin \psi}{668.31}$$

$$\phi = 63.77^\circ$$

$$\frac{\sin \alpha}{500} = \frac{\sin \beta}{672.33}$$

$$\alpha = 83.4787^\circ$$



$$\gamma_{xy} = 0.4297^\circ$$

Mechanics Of Materials Study Guide

Yijin Wang



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

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 - Interactive Elements Mechanics Of Materials Study Guide
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 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mechanics Of Materials Study Guide
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 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
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 - Setting Reading Goals Mechanics Of Materials Study Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mechanics Of Materials Study Guide
 - Fact-Checking eBook Content of Mechanics Of Materials Study Guide
 - 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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