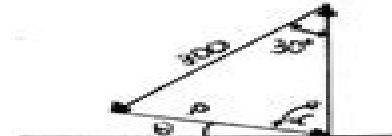
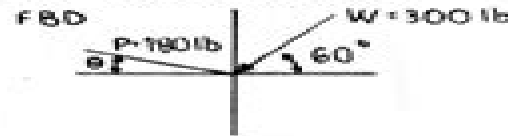


311. IF THE VALUE OF P IN FIG. P-310 IS 180 lb, DETERMINE THE ANGLE θ AT WHICH IT MUST BE INCLINED WITH THE SMOOTH PLANE TO HOLD THE 300-lb BOX IN EQUILIBRIUM.



SOLUTION:

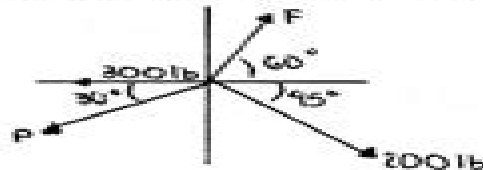
$$\frac{300}{\sin \angle} = \frac{180}{\sin 30^\circ} \rightarrow 300 \sin 30^\circ = 180 \sin \angle$$

$$\sin \angle = \frac{300 \sin 30^\circ}{180} = \frac{5}{6} ; \angle = \sin^{-1} \frac{5}{6}$$

$$\angle = 56.44^\circ$$

$$\theta = 90^\circ - 56.44^\circ = \boxed{33.56^\circ}$$

312. DETERMINE THE MAGNITUDE OF P AND F NECESSARY TO KEEP THE CONCURRENT FORCE SYSTEM, SHOWN IN P-312 IN EQUILIBRIUM.



$$\sum F_y = 0$$

$$300 \sin 60^\circ + P \sin 30^\circ - 200 \sin 105^\circ = 0$$

$$\frac{P \sin 30^\circ}{\sin 30^\circ} = \frac{200 \sin 105^\circ - 300 \sin 60^\circ}{\sin 30^\circ}$$

$$P = \frac{200 \sin 105^\circ - 300 \sin 60^\circ}{\sin 30^\circ}$$

$$\boxed{P = -133.245 \text{ lb}}$$

$$\sum F_x = 0$$

$$F - 300 \cos 60^\circ - P \cos 30^\circ + 200 \cos 105^\circ = 0$$

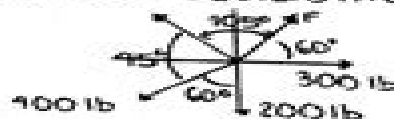
$$F - 300 \cos 60^\circ - (-133.245) \cos 30^\circ + 200 \cos 105^\circ = 0$$

$$F - 300 \cos 60^\circ + 133.245 \cos 30^\circ + 200 \cos 105^\circ = 0$$

$$F - 300 \cos 60^\circ - 133.245 \cos 30^\circ - 200 \cos 105^\circ = 0$$

$$\boxed{F = 86.37 \text{ lb}}$$

313. FIG. 313 REPRESENTS THE CONCURRENT FORCE SYSTEM ACTING AT A JOINT OF A BRIDGE TRUSS. DETERMINE THE VALUES OF P AND E TO MAINTAIN EQUILIBRIUM OF FORCES.



FBD



$\sum F_y$

$$\sum F_y = 0$$

$$300 \sin 15^\circ + F \sin 75^\circ - 400 \sin 45^\circ - 200 \sin 105^\circ = 0$$

$$\frac{F \sin 75^\circ}{\sin 75^\circ} = \frac{400 \sin 45^\circ + 200 \sin 105^\circ - 300 \sin 15^\circ}{\sin 75^\circ}$$

$$F = \frac{400 \sin 45^\circ + 200 \sin 105^\circ - 300 \sin 15^\circ}{\sin 75^\circ}$$

$$\boxed{F = 412.436 \text{ lb}}$$

$$\sum F_x = 0$$

$$-P - 400 \cos 45^\circ + 200 \cos 75^\circ + 300 \cos 15^\circ + F \cos 75^\circ = 0$$

$$P = -400 \cos 45^\circ + 200 \cos 75^\circ + 300 \cos 15^\circ + F \cos 75^\circ$$

$$\boxed{P = 165.495 \text{ lb}}$$

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1. Understanding the eBook Engineering Mechanics Problems And Solutions Pondicherry University
 - The Rise of Digital Reading Engineering Mechanics Problems And Solutions Pondicherry University
 - Advantages of eBooks Over Traditional Books
2. Identifying Engineering Mechanics Problems And Solutions Pondicherry University
 - 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 Engineering Mechanics Problems And Solutions Pondicherry University
 - User-Friendly Interface
4. Exploring eBook Recommendations from Engineering Mechanics Problems And Solutions Pondicherry University
 - Personalized Recommendations
 - Engineering Mechanics Problems And Solutions Pondicherry University User Reviews and Ratings

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