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[Engineering Mechanics - Statics Chapter 2 Given: \$F_a = 30 \text{ lb}\$ \$\theta_1 = 80 \text{ deg}\$ \$\theta_2 = 60 \text{ deg}\$ Solution: \$F_a \sin\(\theta_1\) - F_b \sin\(180 \text{ deg}\) - \(F_a \sin\(\theta_1\) + F_b \sin\(\theta_2\)\) = F\$ \$F_a \sin\(80 \text{ deg}\) - F_b \sin\(180 \text{ deg}\) - \(F_a \sin\(80 \text{ deg}\) + F_b \sin\(60 \text{ deg}\)\) = F\$ \$F = F_a \sin\(80 \text{ deg}\) - F_b \sin\(180 \text{ deg}\) - F_a \sin\(80 \text{ deg}\) - F_b \sin\(60 \text{ deg}\)\$ \$F = -F_b \sin\(60 \text{ deg}\)\$ \$F = -19.6 \text{ lb}\$ \$F_a \sin\(\theta_1\) - F_b \sin\(\theta_2\) = F_b\$ \$F_a \sin\(\theta_2\) \sin\(\theta_1\) = F_b = 26.4 \text{ lb}\$ Problem 2-13 A resultant force F is necessary to hold the ballon in place. Resolve this force into components](#)

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His industrial experience includes work and research in bridges, tall buildings, shell structures, jetties, pavements, cable structures, glass diaphragm walls. Professor Fan was also the adaptor for the 5th and 6th SI editions of Hibbeler's Mechanics of Materials, and the 12th SI edition of Hibbeler's Engineering Mechanics: Statics and ...

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Table of Contents. Chapter 1. 2. Chapter 2. 8. Chapter 3. 12. Chapter 4. 25. Chapter 5. 35. Chapter 6. 54. Chapter 7. 75. Chapter 8. 84. Chapter 9. 96. Chapter 10 ...

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