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### Hibbeler Statics 11th Edition Solution

Chapter 5 Hibbeler, statics 11th edition solutions manual. Chapter 6. Preview tekst. Problem 3-. Determine the magnitudes of  $F_1$  and  $F_2$  so that the particle is in equilibrium. Given:  $F = 500 \text{ N}$   $\theta_1 = 45^\circ$   $\theta_2 = 30^\circ$ . Solution: Initial Guesses  $F_1 = 1 \text{ N}$   $F_2 = 1 \text{ N}$  Given.

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Solution: Consider the three vectors; with A vertical. Note triangle obd is perpendicular to A.  $od = AB \sin(\theta_3)$   $ob = AB \cos(\theta_3)$   $bd = AD \sin(\theta_2)$  Also, these three cross products all lie in the plane obd since they are all perpendicular to A. As noted the magnitude of each cross product is proportional to the length of each side of the triangle.

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Solution:  $\alpha = 180^\circ - (\theta_3 + \theta_1)$   $F_R = F_2 \cos(\alpha) + F_1 \sin(\alpha)$   $F_R = 61.4 \text{ lb}$   $\theta' = 51.8^\circ$   $\theta = 6.8^\circ$ . Problem 2- Resolve the force  $F_1$  into components acting along the u and v axes and determine the components. 17 © 2007 R. C. Hibbeler.

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Solution: Initial Guesses.  $F_{AB} = 1 \text{ lb}$   $F_{AD} = 1 \text{ lb}$   $F_{DC} = 1 \text{ lb}$   $F_{BC} = 1 \text{ lb}$   $F_{BD} = 1 \text{ lb}$   $F_{DE} = 1 \text{ lb}$ . Given. Joint A:  $F_{AB} \cos(\theta) - F_{AD} \sin(\theta) = 0$ ;  $F_{AB} \sin(\theta) + F_{AD} \cos(\theta) - P_1 = 0$ . Joint B:  $F_{BC} - F_{AB} \sin(\theta) = 0$ ;  $F_{BD} - F_{AD} \cos(\theta) = 0$ . 441 © 2007 R. C. Hibbeler. Published by Pearson Education, Inc., Upper Saddle River, NJ. All rights reserved.

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Chapter 4 Hibbeler, statics 11th edition solutions manual. Chapter 6. Preview text. Problem 5- Draw the free-body diagram of the sphere of weight  $W$  resting between the smooth inclined planes. Explain the significance of each force on the diagram. Given:  $W = 10 \text{ lb}$   $\theta_1 = 105^\circ$   $\theta_2 = 45^\circ$ .

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Solution: The differential Area (shaded)  $dA = 2\pi r \cos(\theta) dr$   $PA = \int_0^R 2\pi r \cos(\theta) dr = \pi R^2 \cos(\theta)$   $R = 0.871 \text{ m}$ . 871 © 2007 R. C. Hibbeler. Published by Pearson Education, Inc., Upper Saddle River, NJ.

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11.3 Principle of Virtual Work for a System of Connected Rigid Bodies 571. 11.4 Conservative Forces 583. 11.5 Potential Energy 584. 11.6 Potential-Energy Criterion for Equilibrium 586. 11.7 Stability of Equilibrium Configuration 587 Appendix . A. Mathematical Review and Expressions . Fundamental Problems Partial Solutions and Answers

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