

Problems. Equilibrium of particles

Plane concurrent force system

3-1. A steel beam is lifted by two cables. Determine the magnitude of the two forces F_1 and F_2 acting on each cable to produce a resultant of magnitude 400 N along the positive y -axis.

$$\text{Ans.: } F_1 = 199.58 \text{ N}, \quad F_2 = 400.23 \text{ N}.$$

3-2. If the tension in cable is $T = 400 \text{ N}$, determine the magnitude and direction of their resultant acting on the pulley, R and θ ?

3-3. The resultant has a magnitude of 450 N. Determine direction of their resultant and the magnitude of force F .

$$\text{Ans.: } F = 334.76 \text{ N}.$$

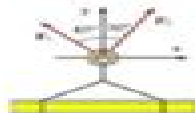


Fig. P3-1

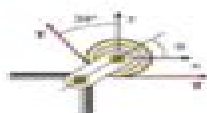


Fig. P3-2



Fig. P3-3

3-4. Three forces act on the point as shown in the figure. Determine the magnitude of the force F so that the resultant of the three forces does not exceed 2400 N.

$$\text{Ans.: } 1222.41 \text{ N} \leq F \leq 3373.34 \text{ N}.$$

3-5. Determine the magnitude of force F so that the resultant of the three forces is as small as possible. What is the minimum value of the resultant?

$$\text{Ans.: } F = 3653.34 \text{ N}, \quad R_{\min} = 7866.11 \text{ N}.$$

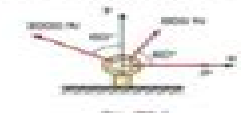


Fig. P3-4



Fig. P3-5



Fig. P3-6

3-28. Given a system of three forces as shown in the figure. The magnitudes are $F_1 = 1.8 \text{ kN}$, $F_2 = 1.2 \text{ kN}$, and $F_3 = 1.8 \text{ kN}$. Determine and present the resultant in the form (a) $R = R_x i + R_y j + R_z k$ and (b) $R = rR$.

$$\text{Ans.: (a) } R = 2.32 i + 1.33 j + 0.96 k \text{ kN}.$$

3-29. Present the force F in the Cartesian form. Given that $F = 248 \text{ N}$.

$$\text{Ans.: } F = 395.426 i + 133.793 j + 399.74 \text{ N}.$$



Fig. P3-28



Fig. P3-29

3-25. Determine: (a) angle θ between AB and AC ; (b) components of $F = (60i + 12j - 40k) \text{ N}$ on AB and AC .

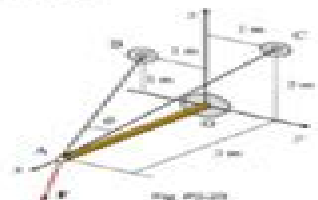


Fig. P3-25

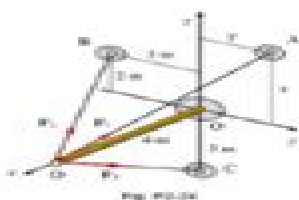


Fig. P3-26

3-26. The weightless bar OD of length 4 m is held horizontally by three cables. Given that the tensions of the cables are $F_1 = 300 \text{ N}$, $F_2 = 250 \text{ N}$, and $F_3 = 150 \text{ N}$.

(a) Determine the position (in y, z) of end point A , so that the resultant of three cable forces is along the bar, originating from D to O .

(b) If the coordinates of A are $y = 3.50 \text{ m}$, $z = 1 \text{ m}$, $x = 3 \text{ m}$, determine the resultant of these cable forces.

3-6. Determine the magnitude and direction of the resultant of the three forces F_1, F_2, F_3 by calculating $F = F_1 + F_2 + F_3$, then $R_x = F_x$, $R_y = F_y$, $R_z = F_z$. Determine its direction measured counter-clockwise from positive x -axis.

3-7. Two forces F_1 and F_2 act on the hook. Determine the magnitude and direction of the resultant force F_3 such that the resultant of these three forces has magnitude 200 N.

$$\text{Ans.: } F_{\min} = 54 \text{ N}, \quad \theta = 30.00^\circ.$$

3-8. Two forces act on the structure as shown in the figure, in which there is a tensile force and a compressive force. Determine the resultant of these two forces; the magnitude and the angle it makes with the positive x -axis.

$$\text{Ans.: } F_1 = 3.75 \text{ kN}, \quad \theta = -0.30 \text{ rad}.$$

3-9. Given the tension T in the cable is 400 N, to represent the vector of the resultant R acting on the pulley by the two tension forces. Determine the magnitude of the resultant R .



Fig. P3-9



Fig. P3-10



Fig. P3-11

3-18. Determine the resultant of the two forces shown in the figure (magnitude and direction of the resultant).

$$\text{Ans.: } F_1 = 26.5 \text{ kN}, \quad \theta = 0.205 \text{ rad}.$$

3-19. Two forces act on rod AB . Determine the magnitude of the force F such that their resultant is along AB .



Fig. P3-18



Fig. P3-19



Fig. P3-20

3-28. A bar of length 16 m is held vertically by three cables. The cables are pulled with tensions F, Q , and P respectively. Their resultant lies along the x -axis. Given that $F = 120 \text{ N}$, determine P and Q .

3-29. Three forces applied at A as shown in the figure. The tension forces in the ropes are $F_1 = 200 \text{ N}$, $F_2 = 175 \text{ N}$, and $F_3 = 140 \text{ N}$. Determine: (1) the magnitude of the resultant of these three forces, and (2) the coordinates of point E where the line of action of the resultant intersects the yz -plane.

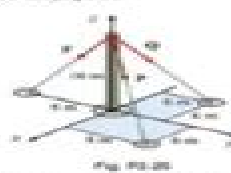


Fig. P3-28

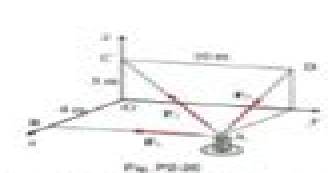


Fig. P3-29

3-27. Two rods 1 and 2 in the horizontal plane, and rope 3 are used to create a hanging point D . Determine the forces in the two rods and the tension in rope 3, when an object of weight P is hung at D . The distances from origin O to 3 points A, B and C are a, b , and c , respectively.

$$\text{Ans.: } T_1 = P\sqrt{a^2 + b^2} / c, \quad T_2 = P\sqrt{b^2 + c^2} / a, \quad T_3 = P\sqrt{a^2 + c^2} / b.$$



Fig. P3-27

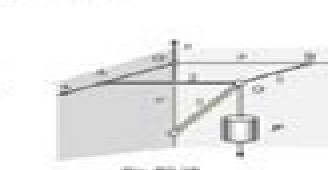


Fig. P3-28

3-28. Two ropes 1 and 2 in the horizontal plane, and rod 3 are used to create a hanging point D . Determine the forces in the two ropes and rod 3, when an object of weight P is hung at D . The distances from origin O to 3 points A, B and C are a, b , and c , respectively.

$$\text{Ans.: } T_1 = P\sqrt{a^2 + b^2} / c, \quad T_2 = P\sqrt{b^2 + c^2} / a, \quad T_3 = P\sqrt{a^2 + c^2} / b.$$

Statics Problems For Food Service

David C. Thompson, R. Craig Wood



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Agricultural Statistics ,1997

Statistics of Land-grant Colleges and Universities United States. Office of

Education,1962

Plunkett's Food Industry Almanac 2008: Food Industry Market Research, Statistics, Trends & Leading Companies Plunkett Research Ltd,2008 Covers almost everything you need to know about the food beverage and tobacco industry including analysis of major trends and markets historical statistics and tables major food producers such as Kraft and Frito Lay and more It also includes statistical tables a food industry glossary industry contacts and thorough indexes

Health Care Food Service Systems Management Catherine F. Sullivan,1998 This practical text offers a systems approach to health care foodservice management Part I introduces the reader to the principles of the systems approach to management Part II presents foodservice systems in sequential order to correspond with the flow of resources through the various departments Each chapter contains behavioral objectives keywords suggested classroom and clinical assignments and test items for developing evaluation tools An instructor s manual is provided *Resources in Education* ,1994-12

Money and Schools David C. Thompson,R. Craig Wood,2005 Overviews funding concepts daily funding operations and the future of school funding with discussion of the effect of money on schools the structure of school governance basic funding structures budget planning legal liability site based leadership and budgeting for various aspects of schools such as instruction and school infrastructure Of interest to school administrators classroom teachers and board of education members This edition contains follow up projects after each chapter updated information on school based budgeting and accountability and expanded coverage of funding issues and policy perspectives Thompson is affiliated with Kansas State University Wood is with the University of Florida c Book News Inc **Catalog. Supplement - Food and Nutrition**

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