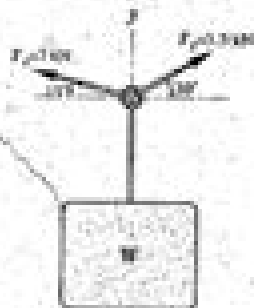


ENGINEERING MECHANICS

STATICS

1. CE Board Nov. 2010

A concrete block is supported by two guy wires attached to an anchoring ring as shown.

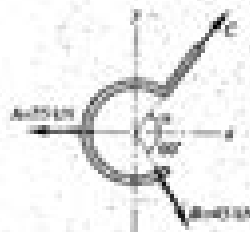


Determine the following:

1. Resultant force on the anchoring ring.
a) 2.55 kN c) 4.04 kN
b) 3.20 kN d) 5.156 kN
2. Angle of resultant force with respect to horizontal.
a) 23.6° c) 43.7°
b) 50.7° d) 36.6°
3. Weight W of the concrete block with a factor of safety of 1.25 to prevent uplift.
a) 7.16 kN c) 8.26 kN
b) 6.30 kN d) 4.45 kN

2. CE Board May 2013

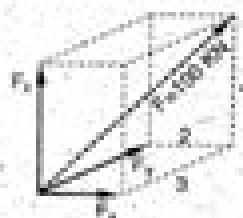
The hook is subjected to three forces A , B and C as shown. $A = 35$ kN, $B = 45$ kN.



1. If the resultant of the forces is 80 kN and is acting along the positive x -axis, find the angle α .
a) 22.85° c) 37.10°
b) 30.44° d) 15.93°
2. If $\alpha = 60^\circ$, what is the value of force C such that the resultant of forces A , B and C acts along the x -axis?
a) 37 kN c) 51 kN
b) 45 kN d) 56 kN
3. For the forces A , B and C to be in equilibrium, what is the magnitude of the resulting force C ?
a) 36.1 kN c) 29.7 kN
b) 40.9 kN d) 54.3 kN

3. CE Board May 2001

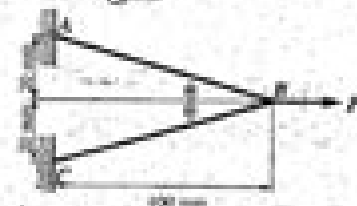
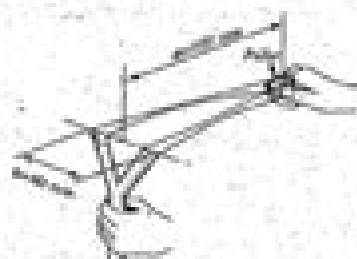
The resultant of the concurrent forces has a magnitude of 1000 kN and acts through the origin and points $x = 2$, $y = 3$ and $z = 4$.



1. Which of the following gives the x -component of the resultant force.
a) 371.86 kN c) 364.72 kN
b) 348.34 kN d) 351.86 kN
2. Which of the following gives the y -component of the resultant force.
a) 540.83 kN c) 556.58 kN
b) 565.78 kN d) 571.01 kN
3. Which of the following gives the z -component of the resultant force.
a) 746.19 kN c) 737.05 kN
b) 756.37 kN d) 742.12 kN

4. CE Board Nov. 2010

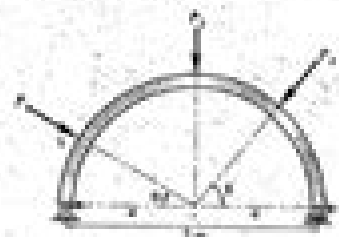
The figure shows a pellet about to be fired from a sling. The total unstretched length of the rubber band is 60 mm. The rubber band elongates 1 mm for every 15 N force. Given: $a = 100$ mm $b = 40$ mm



1. As the pellet is about to be released, how much is the total elongation (mm) of the rubber band?
a) 130 mm c) 123 mm
b) 151 mm d) 144 mm
2. What is the force (N) exerted on each leg of the rubber band?
a) 1343 N c) 1290 N
b) 1080 N d) 1445 N
3. What is the pulling force P (N)?
a) 2000 N c) 5893 N
b) 2118 N d) 1760 N

5. CE Board Nov. 2013

From the figure below



Given data:
 $a = 1$ m, $P_1 = 1.8$ kN, $P_2 = 0.9$ kN, $P_3 = 0.45$ kN
 $\theta = 30^\circ$, $\delta = 45^\circ$

1. Determine the resultant of the three forces P_1 , P_2 and P_3 .
a) 3.05 kN c) 1.64 kN
b) 2.45 kN d) 0.62 kN
2. Determine the vertical reaction at B.
a) 1.67 kN c) 0.63 kN
b) 2.45 kN d) 1.56 kN
3. Determine the horizontal reaction at B.
a) 2.7 kN c) 2.4 kN
b) 1.8 kN d) 0

Learning Guide In Engineering Mechanics

Anthony S. Fauci



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