

2-45.

If the resultant force acting on the bracket is to be directed along the positive  $x$  axis, and the magnitude of  $F_1$  is required to be minimum, determine the magnitudes of the resultant force and  $F_R$ .

### SOLUTION

**Rectangular Components:** By referring to Figs. a and b, the  $x$  and  $y$  components of  $F_1$ ,  $F_2$ ,  $F_3$ , and  $F_R$  can be written as

$$(F_1)_x = F_1 \cos \phi \quad (F_1)_y = F_1 \sin \phi$$

$$(F_2)_x = 650 \left( \frac{3}{5} \right) = 390 \text{ N} \quad (F_2)_y = 650 \left( \frac{4}{5} \right) = 520 \text{ N}$$

$$(F_3)_x = 500 \cos 45^\circ = 353.55 \text{ N} \quad (F_3)_y = 500 \sin 45^\circ = 353.55 \text{ N}$$

$$(F_R)_x = F_R \cos 45^\circ = 0.7071 F_R \quad (F_R)_y = F_R \sin 45^\circ = 0.7071 F_R$$

**Resultant Force:** Summing the force components algebraically along the  $x$  and  $y$  axes, we have

$$\stackrel{+}{\rightarrow} \sum (F_R)_x = \sum F_{xi} \quad 0.7071 F_R = F_1 \cos \phi + 390 + 353.55 \quad (1)$$

$$\stackrel{+}{\uparrow} \sum (F_R)_y = \sum F_{yi} \quad 0.7071 F_R = F_1 \sin \phi + 520 - 353.55 \quad (2)$$

Eliminating  $F_R$  from Eqs. (1) and (2), yields

$$F_1 = \frac{202.89}{\cos \phi - \sin \phi} \quad (3)$$

The first derivative of Eq. (3) is

$$\frac{dF_1}{d\phi} = \frac{\sin \phi + \cos \phi}{(\cos \phi - \sin \phi)^2} \quad (4)$$

The second derivative of Eq. (3) is

$$\frac{d^2F_1}{d\phi^2} = \frac{2(\sin \phi + \cos \phi)^2}{(\cos \phi - \sin \phi)^3} + \frac{1}{\cos \phi - \sin \phi} \quad (5)$$

For  $F_1$  to be minimum,  $\frac{dF_1}{d\phi} = 0$ . Thus, from Eq. (4)

$$\sin \phi + \cos \phi = 0$$

$$\tan \phi = -1$$

$$\phi = -45^\circ$$

Substituting  $\phi = -45^\circ$  into Eq. (5), yields

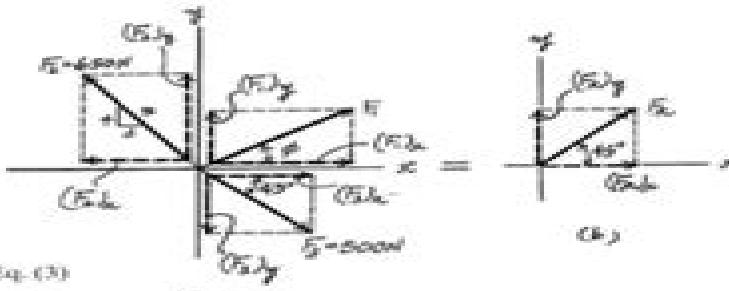
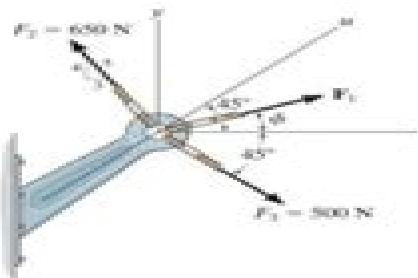
$$\frac{d^2F_1}{d\phi^2} = 0.7071 > 0$$

This shows that  $\phi = -45^\circ$  indeed produces minimum  $F_1$ . Thus, from Eq. (3)

$$F_1 = \frac{202.89}{\cos(-45^\circ) - \sin(-45^\circ)} = 143.47 \text{ N} = 143 \text{ N} \quad \text{Ans.}$$

Substituting  $\phi = -45^\circ$  and  $F_1 = 143.47 \text{ N}$  into either Eq. (1) or Eq. (2), yields

$$F_R = 91.9 \text{ N} \quad \text{Ans.}$$



# Mechanical Engineering Statics 5th Edition Solutions

## Manual

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web uni 4544 gs500 7 ductile cast iron the sg iron grade gs500 7 in standard uni 4544 is also known as grade 500 7 iso 1083 qt500 7 gb 1348 and 70 50 05 astm a536 this material grade is also equal to ggg50 din 1693 en gjs 500 7 en 1563 fcd 500 jis g5502 500 7 bs 2789 etc

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web the following six grades of spheroidal cast iron for this category are sg 700 2a sg 600 3a sg 500 7a sg 400 15a sg 400 i8a and sg 350 22a 3 2 1 these grades normally apply to castings of thickness between 30 mm and 200 mm and with a unit mass greater than 2 000 kg

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web the normal chemical composition for this grade is as the following c 2 7 3 7 si 0 8 2 9 mn 0 3 0 7 p 0 1 s 0 02 the chemical composition has big difference in different standards all compositions are just for reference

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web sg iron is also called as spheroidal graphite cast iron in usa they are also called as ductile iron there are many different sg iron grades in different countries and standards however most of grades have similar requirements to the mechanical properties especially to tensile strength yield strength and elongation

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web chemical composition mass fraction wt of the sg 500 7 element min max similar the data is being updated mechanical properties of steel grade sg 500 7 physical properties of steel grade sg 500 7 heat treatment of steel grade sg 500 7 heat treated 1491 c 1214 c technological curves of steel grade sg 500 7 no curve

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web en gjs 500 7 is an sg iron grade containing graphite nodules or spheres spheroidal graphite the rounded graphite

nodules produces a more ductile cast iron that inhibits the formation of cracks sg iron such as en gjs 500 7 has a greater fatigue and impact resistance compared to grey iron

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web sometimes referenced as a ductile iron bs2789 grade 500 7 is a spheroidal graphite iron that offers better strength wear resistance and hardening capabilities to that of 400 15 or 420 12 s g iron grades we welcome export enquiries for sg iron bar contact our sales office and consult our shipping policy for further details related specifications

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web sg iron 500 7 chemical composition carbon 3 28 3 55 3 44 3 47 silicon 1 87 2 09 2 16 2 14 manganese 0 867 0 477 0 476 0 272 copper 0 456 0 553 0 472 0 557 sulphur 0 0866 0 0116 0 0133 0 00846 phosphorus 0 0472 0 0251 0 0230 0 0232 nickel 0 0986 0 0229 0 0162 0 0199 changes are made only in the major elements of