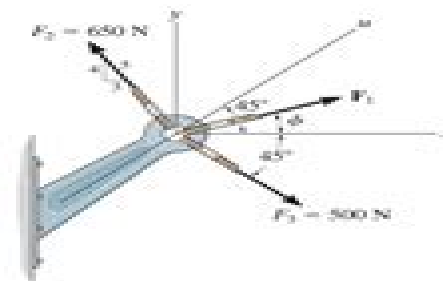


2-45.

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  $F_1$ .



## 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

$$\begin{aligned}(F_1)_x &= F_1 \cos \phi & (F_1)_y &= F_1 \sin \phi \\(F_2)_x &= 650 \left( \frac{3}{5} \right) = 390 \text{ N} & (F_2)_y &= 650 \left( \frac{4}{5} \right) = 520 \text{ N} \\(F_3)_x &= 500 \cos 45^\circ = 353.55 \text{ N} & (F_3)_y &= 500 \sin 45^\circ = 353.55 \text{ N} \\(F_R)_x &= F_R \cos 45^\circ = 0.7071 F_R & (F_R)_y &= F_R \sin 45^\circ = 0.7071 F_R\end{aligned}$$

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

$$\begin{aligned}\rightarrow \Sigma (F_R)_x &= \Sigma F_{x_i} & 0.7071 F_R &= F_1 \cos \phi - 390 + 353.55 & (1)\end{aligned}$$

$$+\uparrow \Sigma (F_R)_y = \Sigma F_{y_i} & 0.7071 F_R &= F_1 \sin \phi + 520 - 353.55 & (2)$$

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

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

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

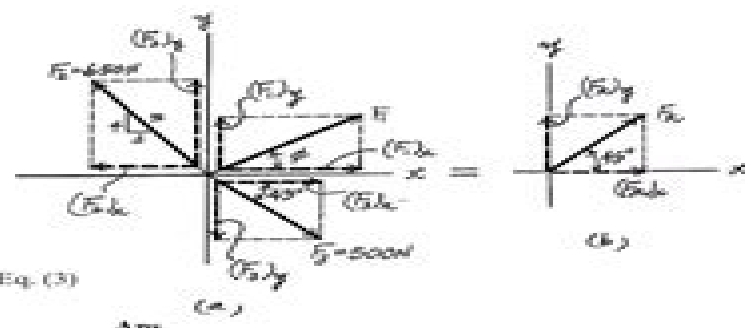
$$\frac{d^2 F_1}{d\phi^2} = 0.7071 > 0$$

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

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

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

$$F_R = 91.9 \text{ N}$$



Ans.

Ans.

# Merriam 4th Edition Statics Question

**University of Chicago. Graduate  
Library School, Frances Henne, Dorothy  
Ethlyn Cole**

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**Your Statistical Consultant** Rae R. Newton, Kjell Erik Rudestam, 2012-09-04  
How do you bridge the gap between what you learned in your statistics course and the questions you want to answer in your real world research? Oriented towards distinct questions in a "How do I or When should I format?" Your Statistical Consultant is the equivalent of the expert colleague down the hall who fields questions about describing, explaining, and making recommendations regarding thorny or confusing statistical issues. The book serves as a compendium of statistical knowledge, both theoretical and applied, that addresses the questions most frequently asked by students, researchers, and instructors. Written to be responsive to a wide range of inquiries and levels of expertise, the book is flexibly organized so readers can either read it sequentially or turn directly to the sections that correspond to their concerns.

The English Catalogue of Books Sampson Low, 1898  
Volumes for 1898-1968 include a directory of publishers.

Bulletin of the Virginia State Library Virginia State Library, 1910

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This book integrates social science research methods and the descriptions of over 40 univariate, bivariate, and multivariate tests to include a description of the purpose, key assumptions, and requirements, example research question, and null hypothesis. SPSS procedures, display, and interpretation of SPSS output, and what to report for each test. It is classroom tested and current with IBM SPSS 22. This expanded second edition also features companion website materials including copies of the IBM SPSS datasets used to create the SPSS output presented in the book and Microsoft PowerPoint presentations that display step-by-step instructions on how to run popular SPSS.

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