



PROBLEM 2.16

Solve Prob. 2.1 by trigonometry.

PROBLEM 2.1

Two forces are applied as shown to a hook. Determine graphically the magnitude and direction of their resultant using (a) the parallelogram law, (b) the triangle rule.

SOLUTION



Using the law of cosines:

$$\begin{aligned} R^2 &= (900 \text{ N})^2 + (600 \text{ N})^2 \\ &\quad - 2(900 \text{ N})(600 \text{ N})\cos(135^\circ) \\ R &= 1390.57 \text{ N} \end{aligned}$$

Using the law of sines:

$$\begin{aligned} \frac{\sin(\alpha - 30^\circ)}{600 \text{ N}} &= \frac{\sin(135^\circ)}{1390.57 \text{ N}} \\ \alpha - 30^\circ &= 17.7642^\circ \\ \alpha &= 47.764^\circ \end{aligned}$$

$$\mathbf{R} = 1391 \text{ N} \angle 47.8^\circ \blacktriangleleft$$

Beer Johnston 5th Edition Solution Manual

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Russell,John DeWolf,David Mazurek**



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700 Solved Problems In Vector Mechanics for Engineers: Dynamics Joseph F. Shelley, 1991-04 Suitable for 2nd year college and university engineering students this book provides them with a source of problems with solutions in vector mechanics that covers various aspects of the basic course It offers the comprehensive solved problem reference in the subject It also provides the student with the problem solving drill

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Mechanics of Materials Ferdinand Beer, Jr. Johnston, E. Russell, John DeWolf, David Mazurek, 2008-05-08 At McGraw Hill we believe Beer and Johnston's *Mechanics of Materials* is the uncontested leader for the teaching of solid mechanics Used by thousands of students around the globe since its publication in 1981 *Mechanics of Materials* provides a precise presentation of the subject illustrated with numerous engineering examples that students both understand and relate to theory and application The tried and true methodology for presenting material gives your student the best opportunity to succeed in this course From the detailed examples to the homework problems to the carefully developed solutions manual you and your students can be confident the material is clearly explained and accurately represented If you want the best book for your students we feel Beer Johnston's *Mechanics of Materials* 5th edition is your only choice

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