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by trigonometry (a) the required tension T_2 in the right-hand portion if the resultant R of the forces exerted by the cable at A is to be vertical, (b) the corresponding magnitude of R . SOLUTION Using the triangle rule and the law of sines: (a) $75 \cdot 40 \cdot 180 \cdot 180 \cdot 75 \cdot 40 \cdot 65 \cdot D \cdot D \cdot q \cdot q \cdot q \cdot q \cdot q \cdot q \cdot 2 \cdot 800 \text{ lb} \cdot \sin 65^\circ \cdot \sin 75^\circ \cdot T \cdot q \cdot q \cdot T_2 \cdot 853 \text{ lb} \cdot W$ (b) $800 \text{ lb} \cdot \sin 65^\circ \cdot \sin 40^\circ \cdot R \dots$

CHAPTER 2

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,

CHAPTER 2

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Chapter 2 Solutions Problem 2.1 Let $v = a\mathbf{i} + b\mathbf{j} + c\mathbf{k}$, or in indicial notation, $v_i = a\delta_{i1} + b\delta_{i2} + c\delta_{i3}$. Using indicial notation, show that, (a) $v \cdot v = a^2 + b^2 + c^2$, (b) $a \cdot b = 0$, (c) $a \cdot b = 0$. Solution (a) For the given vector, we have $v \cdot v = (a\mathbf{i} + b\mathbf{j} + c\mathbf{k}) \cdot (a\mathbf{i} + b\mathbf{j} + c\mathbf{k}) = a^2 + b^2 + c^2$. (b) $a \cdot b = (a\mathbf{i} + b\mathbf{j} + c\mathbf{k}) \cdot (b\mathbf{j} + c\mathbf{k}) = 0$. (c) $a \cdot b = 0$.

Chapter 2 Solutions

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$v_1 + v_2 + v_3 + v_4 = \frac{1}{2}[(a \times b) + (b \times c) + (c \times a) + (e \times d)] = \frac{1}{2}[(a \times b) + (b \times c) + (c \times a) - (a \times b) - (b \times c) - (c \times a)] = 0$. ©2012 Pearson Education, Inc. 62 Chapter 1 Vectors. (b) Denote the vectors associated with the first tetrahedron as v_1, v_2, v_3 , and v_4 and the vectors associated with the second tetrahedron as v_1, v_2, v_3 , and v_4 .

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Chapter 2 begins with the parallelogram law of addition of forces and with the introduction of the fundamental properties of vectors. In the text, forces and other vector quantities are always...

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Chapter 6 135 Vectors and Scalars Chapter 6 . Vectors and Scalars . 6.1 Introduction: In this chapter we shall use the ideas of the plane to develop a new ... 2. Free Vector: A vector whose position is not fixed in space. Thus, the line of ... Solution: 22. 3 2 2 3. 2. $u + 5 5 5 \hat{i} \cdot \hat{j} \cdot \dots$

Chapter 6 Vectors and Scalars

Download Vector Mechanics For Engineers Statics Solutions Manual - Vector Mechanics for Engineers: Statics Introduction 4 - 4 • The necessary and sufficient conditions for the static equilibrium of a body are that the forces sum to zero, and the moment about any point sum to zero: $\sum F = 0$ $\sum M_O = \sum (r \times F) = 0$! ! !

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