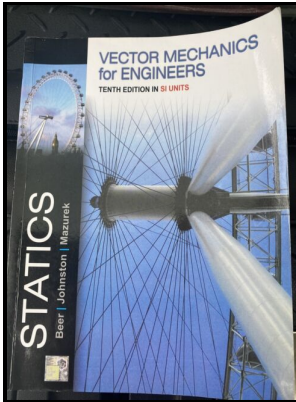# Mechanics for engineers

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The parallelogram law of addition and triangular rule are shown in Figs. Determine the magnitude of force so that the resultant force of the three forces is as small as possible.

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About the Adapter Fan Sau Cheong, from Nanyang Technological University NTU , Singapore, received his PhD from the University of Hong Kong. Because of this problem, we now provide the great offer to create the short way to gain the books from many sources get in quick times. If the resultant force acting on the bracket is to be directed along the positive u axis, and the magnitude of is required to be minimum, determine the magnitudes of the resultant force and.

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If the magnitude of F is 3 kN, , and , determine the magnitudes of its three components. Trigonometry: Using law of sines Fig.

PPT

A general procedure for analyzing any mechanical problem is presented at the end of the first chapter. Also, what are the projections of F1 and F2 along the y axis? Determine the coordinate angle for F2 and then express each force acting on the bracket as a Cartesian vector. SOLUTION

Rectangular Components: By referring to Fig.

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The coordinate direction angles of are Ans. SOLUTION Force Vector: Unit Vector: The unit vector along the line of action of F2 is Projected Component of F1 Along Line of Action of F2: Negative sign indicates that the force component F1 F2 acts in the opposite sense of direction to that of uF2. The direction angle of , Fig.

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