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Vector components may be expressed as products of the unit vectors with the scalar magnitudes of the vector components. F_x and F_y are referred to as the scalar components of F . $F = F_x i + F_y j$ May resolve a force vector ...

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Eighth Vector Mechanics for Engineers: Statics Edition Introduction $\hat{\epsilon}$ In preceding chapters, it was assumed that surfaces in contact were either frictionless (surfaces could move freely with respect to each other) or rough (tangential forces prevent relative motion between surfaces). $\hat{\epsilon}$ Actually, no perfectly frictionless surface exists.

VECTOR MECHANICS FOR ENGINEERS: 8 STATICS

Seventh Vector Mechanics for Engineers: Dynamics Edition 16 - 7 Axioms of the Mechanics of Rigid Bodies $\hat{\epsilon}$ The forces act at different points on a rigid body but but have the same magnitude, direction, and line of action. $F F r r$ and $\hat{\epsilon}^2 \hat{\epsilon}$ The forces produce the same moment about any point and are therefore, equipollent external forces.

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Eighth Vector Mechanics for Engineers: Statics Edition 6 - 7 Simple Trusses $\hat{=}$ A rigid truss will not collapse under the application of a load. $\hat{=}$ A simple truss is constructed by successively adding two members and one connection to the basic triangular truss. $\hat{=}$ In a simple truss, $m = 2n - 3$ where m is the total number of members

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Eighth Vector Mechanics for Engineers: Statics Edition 5 - 3 Introduction \hat{e}_z The earth exerts a gravitational force on each of the particles forming a body. These forces can be replaced by a single equivalent force equal to the weight of the body and applied at the center of gravity for the body. \hat{e}_z The centroid of an area is analogous to the ...

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Vector Mechanics for Engineers. Statics n Rectilinear Motion. Position, Velocity & Acceleration 11 - 4 \hat{e}_z Particle moving along a straight line is said to be in rectilinear motion. \hat{e}_z Position coordinate of a particle is defined by positive or negative distance of particle from a fixed origin on the line. \hat{e}_z The motion of a particle is known ...

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Seventh Vector Mechanics for Engineers: Dynamics Edition 12 - 4 Dynamic Equilibrium \hat{e}_z Alternate expression of Newton's second law, $m\mathbf{a} = \sum \mathbf{F}$ inertial vector $\mathbf{F} = m\mathbf{a}$ \hat{e}_z With the inclusion of the inertial vector, the system of forces acting on the particle is equivalent to zero. The particle is in dynamic equilibrium.

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