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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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The midterm will be based on Chapters 1-5 and sections 6.1-6.7. It will be one-hour, take-home, open-text book and open-notes exam. ... resultant force vector and a resultant couple vector,

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â€¢ The forces act at different points on a rigid body but but have the same magnitude, direction, and line of action.  $\sum \mathbf{F} = \mathbf{0}$  and  $\sum \mathbf{M} = \mathbf{0}$   
â€¢ The forces produce the same moment about any point and are therefore, equipollent external forces.

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Seventh Vector Mechanics for Engineers: Dynamics Edition 12 - 4 Dynamic Equilibrium  $\hat{e}_i$  Alternate expression of Newtonâ€™s second law,  $m\mathbf{a} = \sum \mathbf{F}$  inertial vector  $\mathbf{F} = m\mathbf{a}$   $\hat{e}_i \hat{e}_j = \delta_{ij}$   $\hat{e}_i \hat{e}_i = 1$   $\hat{e}_i \hat{e}_j = 0$   $\hat{e}_i \hat{e}_j = \delta_{ij}$  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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Ferdinand P. Beer & E. Russell Johnston Jr. Vector Mechanics for Engineers ( Dynamics ) McGraw-Hill Book Company Inc. 1977 ( N.B.; book page numbering follows on from companion volume 'Statics' ) Acrobat 7 Pdf 127.0 Mb.

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