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1 Problem 1-1 Represent each of the following combinations of units in the correct SI form using an appropriate prefix: (a) m/ms (b)  $\mu\text{km}$  (c) ks/mg (d)  $\text{km} \cdot \mu\text{N}$  Units Used:  $\mu\text{N} = 10^{-6} \text{ N}$   $\mu\text{km} = 10^{-6} \text{ km}$   $\text{Gs} = 10^9 \text{ s}$   $\text{ks} = 10^3 \text{ s}$   $\text{mN} = 10^{-3} \text{ N}$   $\text{ms} = 10^{-3} \text{ s}$  Solution: (a)  $\text{m/ms} = 1 \text{ s}$  (b)  $\text{km} = 10^3 \text{ m}$   $\mu\text{km} = 10^{-6} \text{ km} = 10^{-3} \text{ m} = 1 \text{ mm}$  (c)  $\text{ks} = 10^3 \text{ s}$   $\text{mg} = 10^{-3} \text{ g} = 10^{-6} \text{ kg}$   $\text{ks/mg} = 10^3 \text{ s} / 10^{-6} \text{ kg} = 10^9 \text{ s/kg}$  (d)  $\text{km} = 10^3 \text{ m}$   $\mu\text{N} = 10^{-6} \text{ N}$   $\text{km} \cdot \mu\text{N} = 10^3 \text{ m} \cdot 10^{-6} \text{ N} = 10^{-3} \text{ m} \cdot \text{N} = 1 \text{ mm} \cdot \text{N}$

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9 s = 1 × 10 mg kg ks Gs = 1 mg kg ( d)  
-3 km· μN = 1 × 10 mN km· μN = 1  
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members which "carry no load." As far as completing statics goes, we can ignore the issue. Often they are included

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to carry loads which move to another location, as with cars crossing a bridge, and which require another whole set of solutions. They are also used a bracing to prevent buckling, a topic you will study in "strength of materials."

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statics success, then, is keeping your shear and moment diagrams straight from your free-body diagrams and knowing the differences among the calculations for moments, centroids, vectors, and pressures.

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A A 1000 lb 541.7 lb = = y x D D Cx

=541.7 lb Cy =400 lb 1000 lb 541.7 lb =

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=  $y \times B \ B \ B_x \ B_y \ C_x \ C_y \ B_x \ B_y \ C_x \ C_y \ D_x \ D_y \ D_x \ D_y \ E_y \ A_y \ A_x \ 500 \text{ lb} \ 2000 \text{ lb} \ E_y = 1400 \text{ lb}$  All these forces at the joints are useful for designing the pins that connect ...

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rigged so that the alternate solution is easier than the default solution. The graphical method for addition of vectors requires placing them head to tail. The sum would be the resultant vector connecting the tail of the first vector to the head of the last.

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