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Engineering Mechanics: Statics & Dynamics (14th Edition ...

Engineering Mechanics - Statics Chapter 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) μkm (c) ks/mg (d) $\text{km} \cdot \mu\text{N}$ Units Used: $\mu\text{N} = 10^{-6} \text{N}$ $\mu\text{km} = 10^{-6} \text{km}$ $9 \text{Gs} = 10^9 \text{s}$ $3 \text{ks} = 10^3 \text{s}$ $\text{mN} = 10^{-3} \text{N}$ $3 \text{ms} = 10^{-3} \text{s}$ Solution: (a) $\text{m} / \text{ms} = 1 \times 10^3 \text{ s}^{-1}$ (b) $\mu\text{km} = 1 \times 10^{-6} \text{ km} = 1 \text{ mm}$ (c) $9 \text{ ks} = 9 \times 10^3 \text{ s}$ $\text{mg} / \text{kg} = 1 \text{ mg} / \text{kg}$ (d) $3 \text{ km} \cdot \mu\text{N} = 3 \times 10^{-3} \text{ m} \cdot 10^{-6} \text{ N} = 3 \times 10^{-9} \text{ m} \cdot \text{N}$ 1 © 2007 R.

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Indeterminate Trusses Equilibrium conditions alone are not enough to determine member forces. Properties of the materials, hence the deformation of the structures, must be taken into consideration.

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from your free-body diagrams and knowing the differences among the calculations for moments, centroids, vectors, and pressures.

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Statics is typically the first engineering mechanics course taught in university-level engineering programs. It is the study of objects that are either at rest, or moving with a constant velocity. Statics is important in the development of problem solving skills. It teaches you to think about how forces and bodies act and react to one another.

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Okay. Welcome to Module 7 of an Introduction to Engineering Mechanics. Today, we're going to take many of the concept that we, concepts that we've learned in previous modules and we're going to go ahead and solve the two-dimensional or 2D equilibrium problem. This is the problem we're going to look at or examine and solve.

Module 7: Solve a Particle Equilibrium Problem - Forces ...

Engineering Statics (EngM 223)
Department of Engineering Mechanics.
University of Nebraska-Lincoln (Prepared
by Mehrdad Negahban, Spring 2003)

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