

Engineering Mechanics I Statics

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Statics, the branch of Engineering Mechanics dealing with the analysis of force interactions in bodies at equilibrium, mainly comprises of study of structures. In engineering mechanics an arrangement of rigid members connected in certain patterns is called as a structure.

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Statics. This free online statics course teaches how to assess and solve 2D and 3D statically determinate problems. The course consists of 72 tutorials which cover the material of a typical statics course (mechanics I) at the university level or AP physics. In order to gain a comprehensive understanding of the subject, you should start at the top and work your way down the list.

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

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The solution to each problem assumed that you already know the basic concepts and principles in Engineering Mechanics. Engineering Mechanics is divided into two major parts, namely Statics and Dynamics. Statics is primarily concerned to system of forces applied to body at rest.

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