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SpringerLink 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) $\text{km} \cdot$

μN Units Used: $\mu\text{N} = 10^{-6} \text{ N}$ $\mu\text{km} = 10^{-6} \text{ km}$ $9 \text{ Gs} =$

10^9 s $3 \text{ ks} = 10^3 \text{ s}$ $\text{mN} = 10^{-3} \text{ N}$ $\text{ms} = 10^{-3} \text{ s}$ Solution:

(a) $\text{m} / 3 \text{ms} = 1 \times 10^{-3} \text{ s}^{-1}$ (b) $\mu\text{km} = 1 \times 10^{-6} \text{ km}$

$= 1 \text{ mm}$ (c) $9 \text{ ks} / \text{mg} = 9 \times 10^3 \text{ s} / 10^{-6} \text{ kg} = 9 \times 10^9 \text{ s} / \text{kg}$

$= 9 \text{ Gs} / \text{kg}$ (d) $\text{km} \cdot \mu\text{N} = 10^3 \text{ m} \cdot 10^{-6} \text{ N} = 10^{-3} \text{ m} \cdot \text{N}$

$= 1 \text{ mm} \cdot \text{N}$ © 2007 R. Engineering Mechanics - Statics by

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