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problem 28. Find the moment of a force

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- 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)



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$\mu\text{km}$  (c)  $\text{ks/mg}$  (d)  $\text{km}\cdot$

$\mu\text{N}$  Units Used:  $\mu\text{N} = 10$

$-6 \mu\text{km} = 10 \text{ N} -6 \text{ km}$

$9 \text{ Gs} = 10 \text{ s} 3 \text{ ks} = 10 \text{ s}$

$\text{mN} = 10^{-3} -3 \text{ ms} =$

$10 \text{ N s}$  Solution: (a)  $\text{m}$

$3\text{m} = 1 \times 10 \text{ ms s m}$

$\text{km} = 1 \text{ ms s}$  (b)  $\mu\text{km} =$

$1 \times 10^{-3} \text{ m}$   $\mu\text{km} = 1$

$\text{mm}$  (c)  $\text{ks} 9 \text{ s} = 1 \times$

$10 \text{ mg kg ks Gs} = 1 \text{ mg}$

$\text{kg}$  (d)  $-3 \text{ km}\cdot \mu\text{N} = 1$

$\times 10 \text{ mN km}\cdot \mu\text{N} = 1$

$\text{mm}\cdot \text{N}$  1 © 2007 R.

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Problem 1.7 Suppose

that the height of Mt.

Everest is known to be

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between 29,032 ft and  
29,034 ft. Based on

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The tension in the cable is 150 kN.

Determine the reaction at the fixed end . E.

SOLUTION: • Create a free-body diagram for the frame and cable. • Solve 3 equilibrium equations for the reaction force components and couple at

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