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1.12   **(B)** $\Delta E_{ice} = \Delta E_{water}. \quad m_{ice} \times 320 = m_{water} \times c_{water} \Delta T.$

$5 \times (40 \times 10^{-6}) \times 1000 \times 320 = (2 \times 10^{-3}) \times 1000 \times 4.18 \Delta T. \quad \therefore \Delta T = \underline{7.66°\text{C.}}$

We assumed the density of ice to be equal to that of water, namely 1000 kg/m³. Ice is actually slightly lighter than water, but it is not necessary for such accuracy in this problem.

1.13   **(D)**   For this high-frequency wave, $c - \sqrt{RT} - \sqrt{287 \times 323} - \underline{304 \text{ m/s.}}$
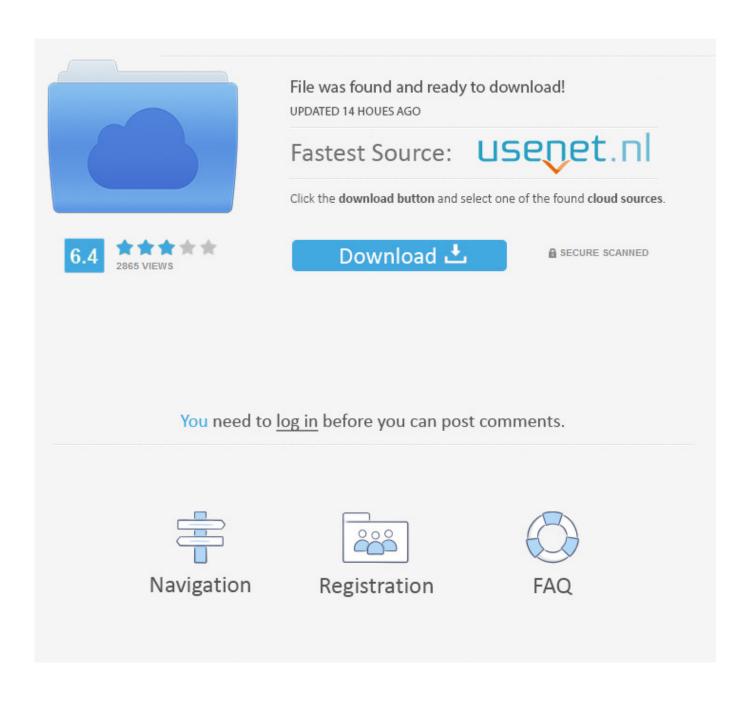
Chapter 1 Problems: Dimensions, Units, and Physical Quantities

1.14   Conservation of mass — Mass — density
Newton's second law — Momentum — velocity
The first law of thermodynamics — internal energy — temperature

1.15   a) density = mass/volume = M / L^3
b) pressure = force/area = $F / L^2 = ML / T^2 L^2 = M / LT^2$
c) power = force $\times$ velocity = $F \times L / T = ML / T^2 \times L / T = ML^2 / T^3$
d) energy = force $\times$ distance = $ML / T^2 \times L - ML^2 / T^2$
e) mass flux = $\rho AV = M/L^3 \times L^2 \times L/T = M/T$
f) flow rate = $AV = L^2 \times L/T = L^3/T$

1.16   a) density = $\dfrac{M}{L^3} \dfrac{FT^2 / L}{L^3} - FT^2 / L^4$
b) pressure = F/L^2
c) power = $F \times$ velocity = $F \times L/T = FL/T$
d) energy = $F \times L = FL$
e) mass flux = $\dfrac{M}{T} = \dfrac{FT^2 / L}{T} = FT / L$
f) flow rate = $AV = L^2 \times L/T = L^3/T$

1.17   a) $L = [C] T^2. \qquad \therefore [C] = L/T^2$
b) $F = [C]M. \qquad \therefore [C] = F/M = ML/T^2 M = L/T^2$
c) $L^3/T = [C] L^2 L^{2/3}. \quad \therefore [C] = L^3 / T \cdot L^2 \cdot L^{2/3} - L^{1/3}T$
Note: the slope S_0 has no dimensions.

1.18   a) $m = [C] s^2. \qquad \therefore [C] = m/s^2$
b) $N = [C] kg. \qquad \therefore [C] = N/kg = kg \cdot m/s^2 \cdot kg = m/s^2$
c) $m^3/s = [C] m^2 m^{2/3}. \therefore [C] = m^3/s \cdot m^2 \cdot m^{2/3} = m^{1/3}/s$

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