

1.1.

There are many possible ways to deduce this, but perhaps the most straightforward is to write Newton's law as $F = ma/g$, and see what numerical value and units are required to make it work out. If one poundal is the force required to accelerate 1 lb. at 1 ft/s², then Newton's law in these units is: 1 poundal = 1 lb. * 1 ft/s² / g. So, in these units, $g = 1$ (lb. ft)/(poundal s²).

1.1 (7th edition Prob. 1.2)

(a) Power is power, whether it is electrical, mechanical, or otherwise. Thus, electric power has the usual units of power:

$$\text{power} = \frac{\text{energy}}{\text{time}} = \frac{\text{J}}{\text{s}} = \frac{\text{N m}}{\text{s}} = \frac{\text{kg m}^2}{\text{s}^3}$$

(b) Electric current is by definition the time rate of transfer of electrical charge. Thus

$$\text{current} = \frac{\text{charge}}{\text{time}}$$

or $\text{charge} = \text{current} * \text{time} = \text{A s}$

(you probably recall that the Coulomb is the usual derived unit of charge, defined as 1 A s)

(c) Since power is given by the product of current and electric potential,

$$\text{power} = \frac{\text{energy}}{\text{time}} = \text{current} * \text{electric potential}$$

or $\text{electrical potential} = \frac{\text{energy}}{\text{current} * \text{time}} = \frac{\text{kg m}^2}{\text{A s}^2}$

(you probably recall that this is defined as the volt)

(d) Because (by Ohm's Law) current is electric potential divided by resistance,

$$\text{current} = \frac{\text{electrical potential}}{\text{resistance}}$$

or $\text{resistance} = \frac{\text{electrical potential}}{\text{current}} = \frac{\text{kg m}^2}{\text{A}^2 \text{s}^2}$

(this is defined as the ohm)

(e) Since electric potential is electric charge divided by electric capacitance,

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