Circuit Variables

Assessment Problems

AP 1.1 To solve this problem we use a product of ratios to change units from dollars/year to dollars/millisecond. We begin by expressing \$10 billion in scientific notation:

 $100 \text{ billion} = 100 \times 10^9$

Now we determine the number of milliseconds in one year, again using a product of ratios:

 $\frac{1 \text{ year}}{365.25 \text{ days}} \cdot \frac{1 \text{ day}}{24 \text{ hours}} \cdot \frac{1 \text{ hour}}{60 \text{ mins}} \cdot \frac{1 \text{ min}}{60 \text{ secs}} \cdot \frac{1 \text{ sec}}{1000 \text{ ms}} = \frac{1 \text{ year}}{31.5576 \times 10^9 \text{ ms}}$

Now we can convert from dollars/year to dollars/millisecond, again with a product of ratios:

 $\frac{\$100\times10^9}{1~{\rm year}}\cdot\frac{1~{\rm year}}{31.5576\times10^9~{\rm ms}}=\frac{100}{31.5576}=\$3.17/{\rm ms}$

AP 1.2 First, we recognize that 1 ns = 10⁻⁹ s. The question then asks how far a signal will travel in 10⁻⁹ s if it is traveling at 80% of the speed of light. Remember that the speed of light c = 3 × 10⁸ m/s. Therefore, 80% of c is (0.8)(3 × 10⁸) = 2.4 × 10⁸ m/s. Now, we use a product of ratios to convert from meters/second to inches/nanosecond:

 $\frac{2.4\times10^8~\text{m}}{1\text{s}}\cdot\frac{1~\text{s}}{10^9~\text{ns}}\cdot\frac{100~\text{cm}}{1~\text{m}}\cdot\frac{1~\text{in}}{2.54~\text{cm}}=\frac{(2.4\times10^8)(100)}{(10^9)(2.54)}=\frac{9.45~\text{in}}{1~\text{ns}}$

Thus, a signal traveling at 80% of the speed of light will travel 9.45" in a nanosecond.

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