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## Circuit Variables

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### 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:

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

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

$$\frac{1 \text{ year}}{365.25 \text{ days}} \cdot \frac{1 \text{ day}}{24 \text{ hours}} \cdot \frac{1 \text{ hour}}{60 \text{ mins}} \cdot \frac{1 \text{ min}}{60 \text{ secs}} \cdot \frac{1 \text{ sec}}{1000 \text{ ms}} = \frac{1 \text{ year}}{31.5576 \times 10^6 \text{ ms}}$$

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

$$\frac{\text{\$100} \times 10^9}{1 \text{ year}} \cdot \frac{1 \text{ year}}{31.5576 \times 10^6 \text{ ms}} = \frac{100}{31.5576} = \text{\$3.17/ms}$$

- AP 1.2 First, we recognize that  $1 \text{ ns} = 10^{-9} \text{ s}$ . The question then asks how far a signal will travel in  $10^{-9} \text{ s}$  if it is traveling at 80% of the speed of light. Remember that the speed of light  $c = 3 \times 10^8 \text{ m/s}$ . Therefore, 80% of  $c$  is  $(0.8)(3 \times 10^8) = 2.4 \times 10^8 \text{ m/s}$ . Now, we use a product of ratios to convert from meters/second to inches/nanosecond:

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

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

# Electric Circuits 8th Edition Solution Manual

**Tarek Sobh, Khaled Elleithy, Ausif  
Mahmood, Mohammad A. Karim**



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Kreyszig, Edward J. Norminton, 2002 Aimed at the junior level courses in maths and engineering departments this edition of the well known text covers many areas such as differential equations linear algebra complex analysis numerical methods probability and more Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1971

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web feb 28 2020 one clementine 74 grams packs calories 35 protein 1 gram fat 0 grams carbs 9 grams fiber 1 gram vitamin c 40 of the daily value dv folate 5 of the dv thiamine 5 of the dv

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tangerine and an orange

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web mar 25 2020 while both fruits are good sources of vitamin c if you want the most bang for your buck choose a clementine over a tangerine eating two of them will supply more than a full day s worth of

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web history born in paris but traveled widely as a child with her father transferring first to mexico and later around the world she grew in touch with bossa nova and other local flavors of music returned to france and started piano lessons at

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web feb 5 2023 recipes risks and side effects clementines are one of the most popular citrus fruits on the market not only are they small easy to peel and delicious but they re also jam packed with vitamins minerals and antioxidants as well plus they ve been linked to a long list of health benefits

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web a single clementine contains 1 gram of fiber an impressive amount given the fruit s low calorie count high fiber intake encourages healthy digestion by adding bulk to your stool and making it

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web jan 25 2023 clementines are small oranges that are seedless easy to peel and when well grown and ripe perfectly sweet to eat too they are grown on a hybrid variety of mandarin citrus trees that originated in either china or algeria most

clementines are grown in china though spain morocco and california are famous for growing them as well

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web clementine leads a battle against the demon malthoth with the guidance of her guardian angel héméra travelling in a magical blue sphere occasionally in these travels through fantasy and time she meets famous fictional characters