

End-of-Chapter Problems and Solutions For

Fundamentals of Electric Circuits 7th Edition by Charles Alexander and Matthew Sadiku

Chapter 1-19

Chapter 1, Problem 1.

How many coulombs are represented by these amounts of electrons:

- (a) 6.482×10^{17} (b) 1.24×10^{18}
(c) 2.46×10^{19} (d) 1.628×10^{20}

Chapter 1, Problem 2.

Determine the current flowing through an element if the charge flow is given by

- (a) $q(t) = (3t + 8) \text{ mC}$
(b) $q(t) = (8t^2 + 4t - 2) \text{ C}$
(c) $q(t) = (3e^{-t} - 5e^{-2t}) \text{ nC}$
(d) $q(t) = 10\sin(120\pi t) \text{ pC}$
(e) $q(t) = 20e^{-2t} \cos(50t) \text{ } \mu\text{C}$

Chapter 1, Problem 3.

Find the charge $q(t)$ flowing through a device if the current is:

- (a) $i(t) = 3 \text{ A}$, $q(0) = 1 \text{ C}$
(b) $i(t) = (2t + 5) \text{ mA}$, $q(0) = 0$
(c) $i(t) = 20 \cos(10t + \pi/6) \text{ } \mu\text{A}$, $q(0) = 2 \text{ } \mu\text{C}$
(d) $i(t) = 10e^{-30t} \sin 40t \text{ A}$, $q(0) = 0$

Chapter 1, Problem 4.

A current of 7.4 A flows through a conductor. Calculate how much charge passes through any cross-section of the conductor in 20 seconds.

Chapter 1, Problem 5.

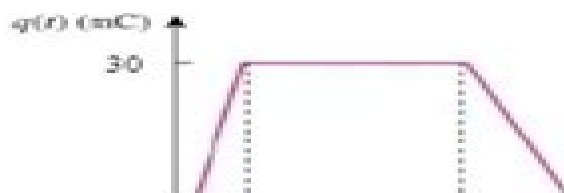
Determine the total charge transferred over the time interval of $0 \leq t \leq 10 \text{ s}$ when

$$i(t) = \frac{1}{2}t \text{ A.}$$

Chapter 1, Problem 6.

The charge entering a certain element is shown in Fig. 1.23. Find the current at:

- (a) $t = 1 \text{ ms}$ (b) $t = 6 \text{ ms}$ (c) $t = 10 \text{ ms}$



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