

2025 EDITION – VERIFIED CHAPTERS

CHAPTER 1

PF.1.1 A proton has 1.602×10^{-19} C. Hence, 6.467 billion protons have
 $= 1.602 \times 10^{-19} \times 6.467 \times 10^{11} = 1.0362 \times 10^{-7}$ C

PF.1.2 $i = dq/dt = d(20 - 15t + 5t^2)/dt = (-15 + 10t - 10t^2)$ mA
 At $t = 1.0$ ms, $i = -15 + 10 \times 10^{-3} - 10 \times 10^{-6} = -14.989$ mA

PF.1.3 $q = \int i dt = \int_0^1 (20 - 15t + 5t^2) dt = 20t - \frac{15}{2}t^2 + \frac{5}{3}t^3 \Big|_0^1$
 $= 8 + 10 - 1.25 = 16.75$ C

PF.1.4 (a) $V_a = d\phi/dq = 1000$ = 20 V

(b) $V_b = d\phi/dq = 1000 - 10 = 990$ V

SOLUTION MANUAL

(c) $w = q \times V = 16.75 \times 1000 = 16.75$ mJ
 $g = i \times V = 3 \text{ mA} \times 1000 \text{ V} = 3 \text{ W}$
 At $t = 3$ ms, $g = 3 \text{ mA} \times (20 - 15 \times 3 \times 10^{-3} + 5 \times 9 \times 10^{-6}) = 3 \times 10^{-3} \times 13.995 = 0.041985$ W = 41.985 mW

PF.1.6 $g = i \times V = 115 \times 12 = 1380$ watts, $w = g \times t$

$W = 1380 \times 24 = 33.12$ kJ, worth \$6000

Fundamentals of

ELECTRIC CIRCUITS

Seventh Edition

Mc
Graw
Hill

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ALL CHAPTERS INCLUDED

Fundamentals Of Electric Circuits Solution

Mark Steyvers



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