

2025 EDITION – VERIFIED CHAPTERS

CHAPTER 1

PF.1.1 A proton has 1.602×10^{-19} C. Hence, 6.467 billion protons have
 $= 1.602 \times 10^{-19} \times 6.467 \times 10^{11} = 1.0422 \times 10^{-7}$ C

PF.1.2 $i = dq/dt = d(20 - 15t - 10t^2)/dt = (-15 - 20t - 20t^2)$ mA
 At $t = 1.0$ ms, $i = -15 + 20 \times 10^{-3} = -15 + 0.020 = -14.980$ mA

PF.1.3 $q = \int i dt = \int (-15 + 20t - 20t^2) dt = -15t + 10t^2 - \frac{20}{3}t^3$
 $= 8 + 80 - 137 = 26.67$ C

PF.1.4 (a) $V_a = iR = 20 \times 5 = 100$ V

(b) $V_b = iR = 20 \times 10 = 200$ V

SOLUTION MANUAL

(c) $w = q \times V = 26.67 \times 100 = 2667$ mJ
 $g = vi = 5 \times (-14.98) = -74.9$ mW
 At $t = 5$ ms, $g = 5 \times (-15 + 20 \times 5 - 20 \times 5^2) = -5000$ mW
 $= -5.000$ W

PF.1.6 $g = vi = 115 \times 12 = 1380$ mW, $w = g \times t$

$W = 1380 \times 24 = 33.12$ kJ, with losses

Fundamentals of

ELECTRIC CIRCUITS

Seventh Edition



Charles Alexander
 Matthew Sadiku

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Paul M. Anderson



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