

2025 EDITION – VERIFIED CHAPTERS

CHAPTER 1

PF.1.1 A proton has 1.602×10^{-19} C. Hence, 6.467 billion protons have
 $= 1.602 \times 10^{-19} \times 6.467 \times 10^{11} = 1.0423 \times 10^{-7}$ 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 $q = \int i dt = \int_0^2 (20 - 15t - 10t^2) dt = 20t - \frac{15}{2}t^2 - \frac{10}{3}t^3$
 $= 8 + 20 - 10 = 28.07$ C

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

(b) $V_b = iR = 100 - 10 = 90$ V

SOLUTION MANUAL

(c) $w = q \times V = 28.07 \times 100 = 2807$ J
 $p = w/t = 2807 / 0.001 = 2.807 \times 10^6$ W
 At $t = 2$ ms, $p = 2 \times 10^{-3} \times 2.807 \times 10^6 = 5614$ W

PF.1.6 $p = w/t = 115 \times 12 = 1380$ watts, $w = p \times t$

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

Fundamentals of

ELECTRIC CIRCUITS

Seventh Edition



Charles Alexander
 Matthew Sadiku

ALL CHAPTERS INCLUDED

Fundamentals Of Electric Circuits 5th Problem Solution

Judd E. Hollander



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