

# 2025 EDITION – VERIFIED CHAPTERS

## CHAPTER 1

**PF.1.1** A proton has  $1.602 \times 10^{-19}$  C. Hence,  $6.467$  billion protons have  
 $= (1.602 \times 10^{-19}) \times (6.467 \times 10^{11}) = 1.042 \times 10^{-7}$  C

**PF.1.2**  $i = dq/dt = d(20 - 15t + 5t^2)/dt = (-15 + 10t) \text{ mA}$   
 At  $t = 1.0$  ms,  $i = -15 + 10 \times 10^{-3} = -15 + 0.010 = -14.990$  mA

**PF.1.3**  $q = \int i dt = \int_0^2 (50 + 10t^2) dt = 50t + \frac{10}{3}t^3$   
 $= 8 + 100 = 108 = 26.47$  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)  $w = q \times V = 108 \times 20 = 2160$  mJ  
 $= 2.16$  J  
 $g = v \times i = 5 \text{ mm} \times (50 + 10t^2) = (250 + 50t^2) \text{ mW}$   
 At  $t = 2$  ms,  $g = 5 \text{ mm} \times (50 + 10 \times 4) = (250 + 200) \text{ mW}$   
 $= 450 \text{ mW} = 0.45$  W

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

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

Fundamentals of

# ELECTRIC CIRCUITS

Seventh Edition



Charles Alexander  
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# ALL CHAPTERS INCLUDED

# Fundamentals Of Electric Circuits Solution

**D Siedentop**



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