

CIRCUITS - MCAT PHYSICS

Cheat Sheet

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Circuit Elements

 Battery

 Resistor

 Capacitor

 Switch

Units

V = voltage
P = power

Ω (ohm) = resistance = R
Q = charge

C = capacitance
I = current
E = electric field

Resistors + Capacitors In Series



$$R_{eq} = R_1 + R_2 + R_3$$

↑
R_{eq}



$$\frac{1}{C_{eq}} = \frac{1}{C_1} + \frac{1}{C_2} + \frac{1}{C_3}$$

↓
C_{eq}

Resistors + Capacitors In Parallel



$$\frac{1}{R_{eq}} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$$

↓
R_{eq}



$$C_{eq} = C_1 + C_2 + C_3$$

↑
C_{eq}

Circuit Equations

Circuits
 $V = IR \rightarrow I = \frac{V}{R} \rightarrow R = \frac{V}{I}$

Power
 $P = IV = \frac{V^2}{R} = I^2 R$

Current
 $I = \frac{\Delta Q}{\Delta t} = A$ (amperes)

Resistance
 $R = \rho \frac{L}{A}$
resistivity

$E = \frac{V}{d}$
Electric Field

Capacitance

$C = \frac{Q}{V} = \text{Farad} = \frac{\epsilon_0 A}{d}$
permittivity of free space

PE capacitor

$U = \frac{1}{2} QV = \frac{1}{2} CV^2 = \frac{Q^2}{2C}$

I = + → ↔



closed switch

Guide Mcat Physics Study

DP Hallahan



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