


# CIRCUITS - MCAT PHYSICS

Cheat Sheet

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## Circuit Elements

 Battery

 Resistor

 Capacitor

 Switch

## Units

V = voltage

P = power

$\Omega$  (ohm) = resistance = R

Q = charge

C = capacitance

I = current

E = electric field

## Resistors & Capacitors In Series



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

$\uparrow$   $R_{eq}$



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

$\downarrow$   $C_{eq}$

## Resistors & Capacitors In Parallel



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

$\downarrow$   $R_{eq}$



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

$\uparrow$   $C_{eq}$

## 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

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

Resistance

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

$\uparrow$  resistivity

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

Electric Field

$$I = + \rightarrow (-)$$



## Capacitance

$$C = \frac{Q}{V} = \text{Farad} = \frac{\epsilon_0 A}{d}$$

permittivity of free space

## PE capacitor

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

# Electronics Math Study Guide

**Craig T. Smith**



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