

# Electrical Formulas Cheat Sheet

## Resistors in Series

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

## Resistors in Parallel

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

## Kirchhoff's Voltage Law

Sum of all voltages in a loop is equal to zero.

$$\sum \text{Voltages} = 0$$

## Kirchhoff's Current Law

Sum of all currents entering and leaving a node is equal to zero.

## Inductive Reactance

$$X_L = 2\pi fL$$

$X_L$  = Inductive reactance

$f$  = Frequency in hertz

$L$  = Inductance in henry

## Capacitive Reactance

$$X_C = \frac{1}{2\pi fC}$$

$X_C$  = Capacitive reactance

$f$  = Frequency

$C$  = Capacitance in Farads

## Ohm's Law for AC

$$E = IZ$$

$$I = \frac{E}{Z}$$

$$Z = \frac{E}{I}$$

$E$  = Voltage

$I$  = Current in Ampere

$Z$  = Impedance in ohms

## Impedance in Series

$$Z_{series} = Z_1 + Z_2 + Z_3$$

## Impedance in Parallel

$$Z_{parallel} = \frac{1}{\frac{1}{Z_1} + \frac{1}{Z_2} + \frac{1}{Z_3}}$$

## Decibel Formulas

$$A_{V(dB)} = 20 \log A_{V(ratio)}$$

$$A_{I(dB)} = 20 \log A_{I(ratio)}$$

$$A_{P(dB)} = 10 \log A_{P(ratio)}$$

$$A_{V(ratio)} = 10^{\frac{A_{V(dB)}}{20}}$$

$$A_{I(ratio)} = 10^{\frac{A_{I(dB)}}{20}}$$

$$A_{P(ratio)} = 10^{\frac{A_{P(dB)}}{10}}$$

## True Power (P)

$$P = I^2 R$$

$$P = \frac{E^2}{R}$$

Measure in watts

## Reactive Power (Q)

$$Q = I^2 X$$

$$Q = \frac{E^2}{X}$$

Measure in Volt-Amps-Reactive

## Apparent Power (S)

$$S = I^2 Z$$

$$S = \frac{E^2}{Z}$$

Measure in Volt-Amps

# Electrical Engineering Formula Sheet

**David Kirk**



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