

Basic Electrical Engineering formula 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

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DP Hallahan



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