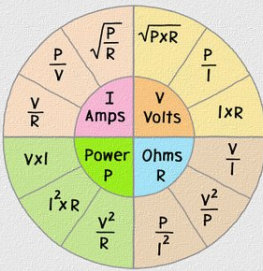


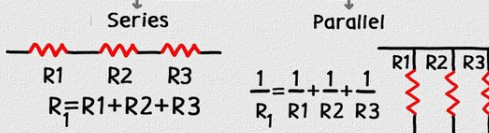
Mémos

Ohm's Law and Power



I=Amps
V=Volts
P=Watts
R=Ohms

Resistor Network Combination of Resistance



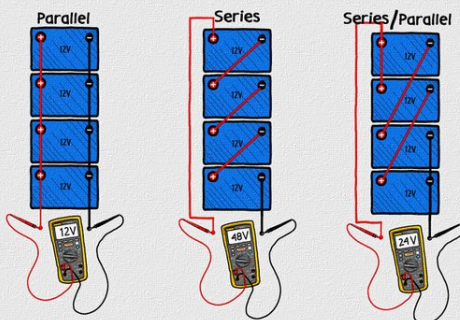
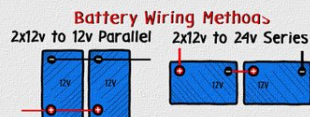
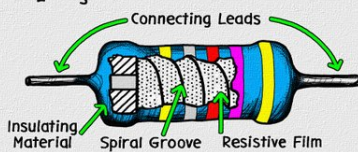
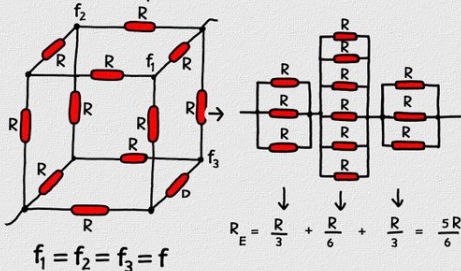
Current is same across each resistance

$V = V_1 + V_2 + V_3$
 $IR_s = IR_1 + IR_2 + IR_3$
 $R_s = R_1 + R_2 + R_3$
 $R_s > \max(R_1, R_2, R_3)$

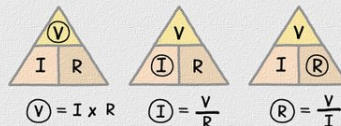
Potential drop across each resistance

$I = I_1 + I_2 + I_3$
 $\frac{V}{R_p} = \frac{V}{R_1} + \frac{V}{R_2} + \frac{V}{R_3}$
 $\frac{1}{R_p} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$

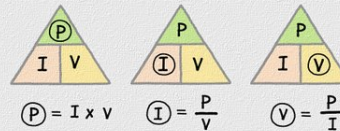
Equivalent Resistance



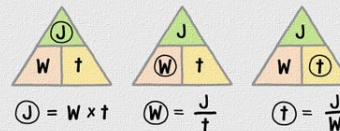
Ohm's Law Triangle



The Power Triangle

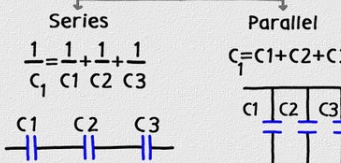


Electrical Power and Energy Triangle

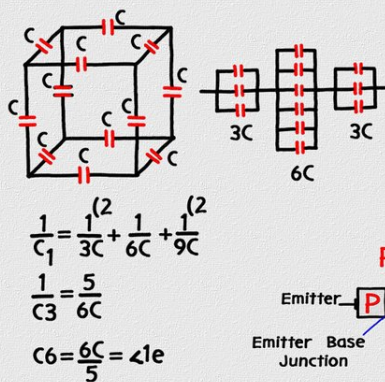


Capacitor Network

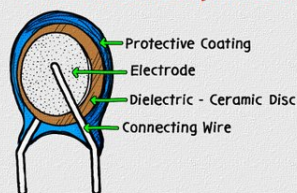
Combination of Equivalent Capacitor



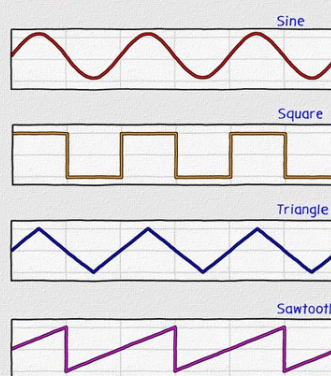
Equivalent Capacitor



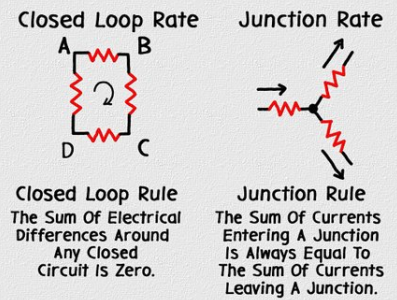
Inside Ceramic Capacitors



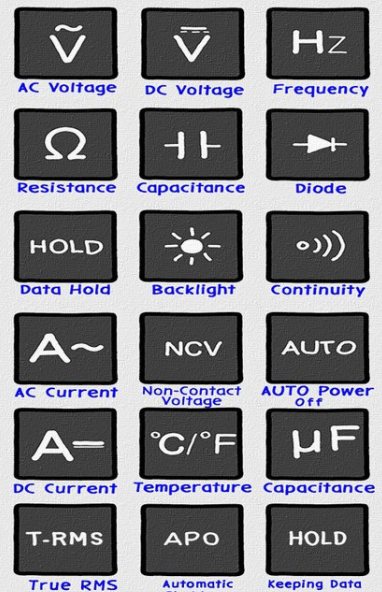
Types Of Periodic Waveform



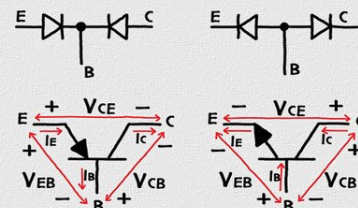
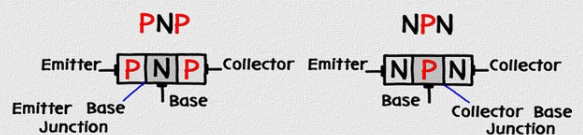
Kirchhoff's Laws



Multimeter



Transistor



BASIC UNIT

QUANTITY	UNIT
CAPACITANCE	(F) Farad
CHARGE	(C) Coulomb
CURRENT	(A) Ampere
ENERGY	(J) Joule
FORCE	(N) Newton
FREQUENCY	(Hz) Hertz
INDUCTANCE	(H) Henry
MAGNETIC FLUX	(Wb) Weber
POTENTIAL	(V) Volt
POWER	(W) Watt
RESISTANCE	(Ω) Ohm



