

To lower the resistance of a circuit, the larger the proportion of conductors being through it.

There are multiple routes through which electrons can go.

The proportion of electrons taking each route depends on the resistance of each route to the flow of current.



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

parallel circuits

# PRINCIPLES OF ELECTRICITY



A three phase AC produced in a power station

Generation of electricity



Transformer



Resistor

Three phase

resistor

transformer

Three phase

resistor

transformer

# Basic Principles Of Electricity

**Thomas Griffiths**



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