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Basic Circuit Laws

Updated: 2 days ago

This note was taken while reading from the [Basic Circuit Theory \(Third Edition\)](#) textbook and reviewing my own past notes. This post is very brief, so if you need more information use the hyperlinks.

In electronics there are *three* main laws that everyone must know:

1. Ohm's Law
2. Kirchhoff's Current Law
3. Kirchhoff's Voltage Law

Ohm's Law

The [voltage](#) across any conductive material is directly proportional to the [current](#) flowing through it.

Formula

For more on Ohm's Law use this [hyperlink](#).

Kirchhoff's Current Law

The algebraic sum of currents entering any node is zero (0). A charge cannot accumulate at a node.

Formula

For more on either of Kirchhoff's Laws use this hyperlink.

Kirchoff's Voltage Law

The algebraic sum of voltages around any closed path is zero (0).

Formula

For more on either of Kirchhoff's Laws use this hyperlink.

Comparison of the three laws



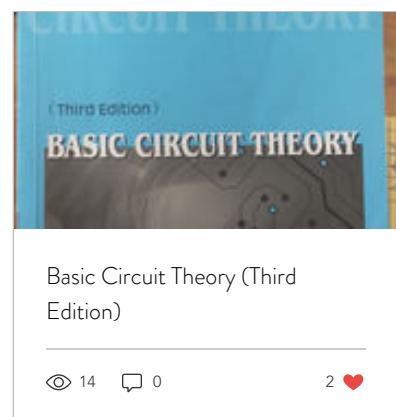
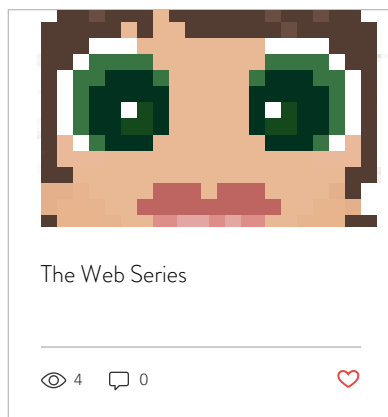
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