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# Basic Electrical Engineering Principles

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The most basic EE principle is that electrons have a negative charge (randomly and incorrectly assigned by Ben Franklin), and that current flows from a positive voltage to a negative voltage; the most basic functional EE principles are Ohm's law ( $V=IR$ ,  $I=V/R$ ,  $R=V/I$ ), and Power =  $VI = I^2R = V^2/R$ . 502 views

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A3: Three basic electrical quantities are, Current - The concept of electricity arises through observation of nature. A force between objects is observed, that, like gravity, acts at a distance. Charge is the name given to this source of force.

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This voltage drop principle leads to another important law in basic electrical engineering, Kirchoff's Voltage Law (KVL). This law states that the algebraic sum of the voltages in a closed loop is always equal to zero. If we only knew the supply potential and the voltage drop of  $R_1$ , we could use KVL to find the other voltage drop. With KVL you have to follow the current path and use the polarities of the components shown. If current path is unknown you have to assume one. We will use the ...

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### **Engineering - Wikipedia**

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