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consider these  
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flows through  
wires. That  
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technical term  
electricity is the  
property of certain  
particles to possess  
a force field which  
is neither  
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nuclear. To understand what this means, we need to start simply. Everything, from water and air to rocks, plants and animals, is made up of minute particles called atoms.

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Theory There are

four basic electrical quantities that we need to know:

Current; Potential Difference

(Voltage) Power;

Resistance .

Electrical Current

Current is a flow of

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charge. Each electron carries a charge of  $1.6 \times 10^{-19}$  coulombs. This is far too small to be any use, so we consider electricity to flow in packets called coulombs.

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In its simplest  
terms, electricity is  
the movement of

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charge, which is considered by convention to be, from positive to negative. No matter how the charge is created, chemically (like in batteries) or physically (friction from socks and carpet), the movement of the discharge is

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Fundamentals.  
Voltage changes  
throughout a

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circuit and differs across components.

voltage is... Step 2: Series Circuits. OK, you should know that electricity needs a completed circuit to flow, or a loop if you will.

Step 3: Parallel ...

*A Complete Guide to Basic*

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and much, much  
more. All of the  
important aspects  
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