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Bertrand B. Singer .

## **The Mathematics behind Electricity**

Electric resistance is in: ohms or volts per ampere (V/A) (or:  $\text{kg}\cdot\text{m}^2 / \text{A}^2 \cdot \text{s}^3$ ). Thus, if we were to solve for the potential difference (volts) across a 47 ohm resistor having a current of 100 mA (100 milliamperes), the physical units would cancel-out as follows, using equation 1) from above:  $E = IR = 0.1 \text{ A times } 47\text{ohms} = 0.1 \text{ A} \times 47(\text{ V/A} ) = 4.7 \text{ V} .$

## **Mathematics for Basic Electronic Circuits**

Schaum's Outline of Basic Mathematics for Electricity and Electronics. Arthur Beiser. Students can turn to this personal tutor to learn the basic mathematics they need as background for understanding electricity and electronics.

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