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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

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