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Check Your Understanding Summary Answer Key

1. The most basic units used by electrical engineers are:

I: current,

R: resistance,

V: voltage

G: ground

2. Draw the symbols or units used by electrical engineers.

I: mA, A, amp R: Ω , ohms

V: V, volts



3. What are some current applications of tactile feedback systems that use force sensors? Please list and then describe how each system works.

Automotive seat testing: Conduct seat comfort and ingress-egress testing.

Bite force measurement of reptiles: Differentiating the bite force of different species of lizards.

Brake pad pressure distribution: Measure, view and evaluate dynamic forces acting between brake pads and rotors.

Footwear research and development: Determine locations of foot pressure and force amounts.

4. What is the importance of calibrating the tactile feedback systems correctly?

All tactile feedback systems must be calibrated correctly in order to produce meaningful data.

5. What is the importance of a curve model in any application?

The studying of these models gives us a better understanding of the behavior and relationships among variables. In most cases, models are an effective and efficient method to simulate solutions to real-world problems.