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Sensor elements'  
resistances can  
range from less  
than 100? to



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several hundred  
k?, depending on  
the sensor  
design and the  
physical  
environment to  
be measured (See  
Figure 2.1). For  
example, RTDs  
(Resistance  
Temperature  
Devices) are  
typically 100?  
or 1000?.

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Thermistors are typically 3500 $\Omega$  or higher.

RESISTANCE OF  
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Except for IC sensors, all temperature sensors have nonlinear transfer

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functions. In the past, complex analog conditioning circuits were designed to correct for the sensor nonlinearity. These circuits often required manual calibration and precision

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resistors to  
achieve the  
desired  
accuracy. Today,  
however, sensor  
outputs may be

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Design will be discussed shortly. They are more linear than many other sensors, and their non-linearity has been well characterized. Some common thermocouples are shown in Figure 6.3. The

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most common  
metals used are  
Iron, Platinum,  
Rhodium,  
Rhenium,  
Tungsten,  
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detailed  
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$\mu$ F ceramic capacitors are for high frequency decoupling. They should be located as close to the

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Conversely, in  
sensor-type  
measurements, R4

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may be a fixed reference, and a null occurs when the magnitude of the external variable

(strain, temperature, etc.) is such that  $R1 = K \cdot R4$ .

Null measurements are principally used in feedback

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