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Sensor elements' resistances can  
range from less than 100  $\Omega$  to several  
hundred k  $\Omega$ , depending on the sensor

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design and the physical environment to be measured (See Figure 2.1). For example, RTDs (Resistance Temperature Devices) are typically 100  $\Omega$  or 1000  $\Omega$ . Thermistors are typically 3500  $\Omega$  or higher.

RESISTANCE OF POPULAR SENSORS

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## INTRODUCTION - Analog Devices

Except for IC sensors, all temperature sensors have nonlinear transfer functions. In the past, complex analog conditioning circuits were designed to correct for the sensor nonlinearity. These circuits often required manual calibration and precision resistors to

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Signal Conditioning  
achieve the desired accuracy. Today,  
however, sensor outputs may be

## SECTION 7 TEMPERATURE SENSORS

Walt Kester, James Bryant ...

compensation (CJC) techniques which  
will be discussed shortly. They are  
more linear than many other sensors,

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Signal Conditioning and their non-linearity has been well characterized. Some common thermocouples are shown in Figure 6.3. The most common metals used are Iron, Platinum, Rhodium, Rhenium, Tungsten, Copper, Alumel (composed

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1998, ISBN-0-916550-19-2. This  
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regulators, switching regulators, switched capacitor voltage converters, battery chargers, temperature sensors, hardware monitoring, and PCB layout techniques relating to power supplies.

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detailed discussion later in this section regarding the design of the LC network. The 0.1  $\mu\text{F}$  ceramic capacitors are for high frequency decoupling. They should be located as close to the

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Conversely, in sensor-type  
measurements,  $R_4$  may be a fixed  
reference, and a null occurs when the

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magnitude of the external variable (strain, temperature, etc.) is such that  $R1 = K \cdot R4$ . Null measurements are principally used in feedback systems involving electromechanical and/or human elements.

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This book presents a comprehensive  
and up-to-date account of the theory

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microcontroller. Practical circuits and interface techniques will be provided for embedded applications with thermocouples, Resistive Temperature Detectors (RTDs), thermistors and silicon integrated circuit temperature sensors. The attributes of each

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