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Sensor elements'
resistances can range
from less than 100 Ω to
several hundred k Ω ,
depending on the sensor
design and the physical

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environment to be measured (See Figure 2.1). For example, RTDs (Resistance Temperature Devices) are typically 100 Ω or 1000 Ω . Thermistors are typically 3500 Ω or higher. RESISTANCE OF POPULAR SENSORS

INTRODUCTION -

Analog Devices

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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 achieve the desired accuracy. Today,

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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, and their non-
linearity has been well

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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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Walt Kester, Analog
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detailed discussion later
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network. The 0.1 μF 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
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 $R_1 = K \cdot R_4$.

Null measurements are principally used in feedback systems involving electromechanical and/or human elements.

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microcontroller.

Practical circuits and interface techniques will be provided for

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with thermocouples,

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The attributes of each

tempera-ture sensor and

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