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Sensor elements'
resistances can
range from less
than 100 Ω to
several hundred

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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

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typically 3500?

or higher.

RESISTANCE OF
POPULAR SENSORS

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Except for IC
sensors, all
temperature
sensors have
nonlinear
transfer
functions. In

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the past, complex analog
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conditioning
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circuits were

designed to
correct for the
sensor
nonlinearity.

These circuits
often required
manual
calibration and
precision
resistors to

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

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SENSORS Walt

Kester, James

Bryant ...

compensation

(CJC) techniques

which will be

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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
most common

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metals used are
Iron, Platinum,
Rhodium,
Rhenium,
Tungsten,
Copper, Alumel
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detailed
discussion later
in this section
regarding the
design of the LC
network. The 0.1
 μF ceramic

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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

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Techniques, and a
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

systems

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