OPAMP APPLICATIONS

INEL 5207 - SPRING 2008 - SLIDE SET 2
HOWLAND CURRENT PUMP

FIGURE 2.6
FLOATING LOAD V-TO-I

FIGURE 2.11
GROUNDED-LOAD CURRENT AMP

FIGURE 2.12
TRIPLE-OPAMP IA

FIGURE 2.20
DUAL-OPAMP IA WITH VARIABLE GAIN

FIGURE 2.24
TRANSDUCER BRIDGE

\[ V_{\text{REF}} \]

\[ R(1+\delta) \]

\[ R_1 \]

\[ R_1 \]

\[ R \]

\[ R_G \]

\[ \text{IA} \]

\[ V_{\text{OUT}} \]

FIGURE 2.35
SRAIN-GAUGE BRIDGE & IA (LOAD CELL)

FIGURE 2.37
SINGLE-OPAMP BRIDGE AMPLIFIER

![Diagram of a single-opamp bridge amplifier]

**Figure 2.38**
NEGATIVE RESISTANCE CONVERTER (NIC)

FIGURE 1-20
EXERCISES

TEXTBOOK PROBLEMS

1.15
2.15