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Chapter 7 Sensor Circuits Rd connection to the Wheatstone bridge measurement circuit, as shown in Figure 7-17. In the circuit shown in Figure 7-17, if wires A and B are perfectly matched in length, their impedance effects will cancel because each is in an opposite leg of the bridge.

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Chapter 7 <19> m CLK A RD n y + 4 A1 A3 D3 RD2 RD1 3 A2 CLK d r e 0 1 0 1 A RD a y WD WE 0 1 0 PC 1 C' str 1 6 0 0 cB 6 1 <<2 + t a a cA s4 ch Reg 0 t 6 Dst ch te Reg c te Op ct l it o c CLK l 0 U Single-Cycle Processor

Chapter 7
This chapter will show you how to build and use a variable digital light sensor. This sensor provides the computer with either a high (1) or low (0) digital signal. When the light sensor is adjusted for a certain level of light, the computer receives a logic low (0) signal as long as this level of light, or more, is maintained.

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(a) For the circuit shown in Figure 7.2, the parameters are R S = R P = 4 kΩ. (i) If the corner frequency is f = 20 Hz, determine the value of C S. (ii) Find the magnitude of the transfer function at , and 200 Hz (b) Consider the circuit shown in Figure 73 with parameters If the corner frequency is f = 500 kHz, determine the value of C P.

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Consider the amplifier of Fig. 7.2(a) with VDD = 1.8 V, RD = 17.5 k, and with a MOSFET specified to have Vt = 0.4 V, kn = 4 mA/V2 , and = 0. Determine the coordinates of the end points of the active-region segment of the VTC. Also, determine VDS C assuming VGS C = VDD. Ans

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Let ’ s say we have an RC circuit composed of a 1 MΩ resistor and a capacitive touch sensor with typical fingerless capacitance of 10 pF. We can use a general-purpose input/output pin (configured as an output) to charge the sensor cap up to the logic-high voltage. Next, we need the capacitor to discharge through the large resistor.

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Performance Analysis of Different Multiband RF Energy ...

This chapter brings together the Hall sensor (Chapter 2), its input (Chapter 3), and its output (Chapter 4). Chapter 7, Application concepts. This is an idea chapter. It presents a number of ways to use Hall effect sensors to per-form a sensing function. This chapter cannot by its nature be all inclusive, but should stimulate ideas on the many additional ways Hall effect technology can be applied.