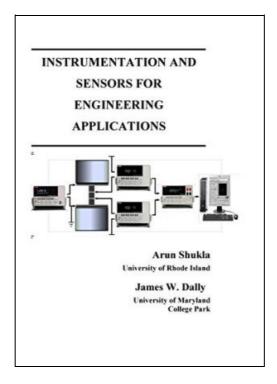
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INSTRUMENTATION AND SENSORS FOR ENGINEERING APPLICATIONS (PAPERBACK)



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College House Enterprises, LLC, United States, 2016. Paperback. Condition: New. Language: English. Brand new Book. The first four chapters provide the foundation for understanding circuits, analog and digital signals, measurement systems and instruments for measuring voltage. Chapter 1 is an introduction to applications of measurement systems, where engineering measurements and process control are described. Chapter 2 provides methods for analysis of circuits. It includes a brief review of electrical and electronic principles important in understanding the operation of instrument systems. Chapter 3 covers digital recording systems and contains detailed descriptions of the analog-to-digital and digital-to-analog conversion processes. Chapter 4 gives a detailed description of potentiometer and Wheatstone bridge circuits, which condition sensor output. Also included is a treatment of several types of amplifiers and filter circuits. Chapters 5 through 10 deal with methods for measuring many different mechanical quantities. Chapter 5 describes sensors for measuring displacement and velocity of an object when a fixed reference for mounting the sensor is available. Optical methods including interferometers and digital image correlation have been added to this coverage. Chapter 6 provides an extensive treatment on the measurement of strain. It includes signal condition circuits, recording instruments, calibration methods, lead wire effects, electrical noise and the effect of temperature. Methods of converting strain to stress for different types of stress states are covered. Finally mechanical and optical strain sensors have been introduced. Chapter 7 covers methods used to measure force, torque and pressure. The emphasis is on the sensors (transducers) employed. Methods for designing transducers are introduced. Finally the important topic of the response of transducers is developed for both a ramp and sinusoidal forcing functions. Chapter 8 deals with measuring temperatures that range from cryogenic to plasmas. Sensor



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