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This introductory text is intended for undergraduate students with no experience in measurement and instrumentation. The book is appropriate for lab courses found in most mechanical engineering departments and often in departments of engineering technology. Introduces mechanical qualities such as force, position, temperature, acceleration, and fluid flow. Each self-contained chapter can be used in any order thus creating many options for the instructor. Mechanical Measurements may be used as a primary text for a measurement course or as a reference in the laboratory.

New to this edition: Fully modernized and expanded coverage of thermocouples; extensively revises material on radiation pyrometry, temperature measurement error, and calibration. Updated coverage of flow meters to reflect the latest standards. Hypothesis testing incorporated into the material on data treatment, uncertainty and error analysis; Chi-squared testing statistics have been expanded and reorganized. Updated and expanded digital techniques - Includes digital imaging and digital signal processors; modern computer buses are covered. Modern photodetectors added to the material. Discussion of modern frequency sources and phase-lock loops. Revised accelerometer calibration methods to reflect improvement in sensor technology. New problems added to supplement new text material. Elimination of obsolescent instrumentation throughout the text.

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The second edition of a bestseller, this book presents the latest innovative research methods that help break new ground by applying patterns, reuse, and design science to research. The book relies on familiar patterns to provide the solid fundamentals of various research philosophies and techniques as touchstones that demonstrate how to innovate research methods. Filled with practical examples of applying patterns to IT research with an emphasis on reusing research activities to save time and money, this book describes design science research in relation to other information systems research paradigms such as positivist and interpretivist research.

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