Record Nr. UNINA9910781436803321 Autore Morris Alan S. <1948-> Titolo Measurement and instrumentation: theory and application / / Alan S. Morris, Reza Langari Pubbl/distr/stampa Waltham, MA:,: Academic Press,, [2012] ©2012 **ISBN** 1-280-58225-1 9786613612038 0-12-381962-8 Descrizione fisica 1 online resource (640 p.) Disciplina 681 Soggetti Measurement Automatic control Engineering instrument Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Includes bibliographical references and index. Nota di bibliografia Nota di contenuto Machine generated contents note: Introduction to Measurement; Types of Instruments and Performance Characteristics; Errors During the Measurement Process: Calibration of Measuring Sensors and Instruments: Data Acquisition with LabVIEW: Signal Processing with LabVIEW; Electrical Indicating and Test Instruments; Display, Recording and Presentation of Measurement Data; Variable Conversion Elements; Signal Transmission: Digital Computation and Intelligent Instruments: Measurement Reliability and Safety Systems; Sensor Technologies; Temperature Measurement; Pressure Measurement; Flow Measurement; Level Measurement: Mass. Force and Torque Measurement: Translational Motion Transducers; Rotational Motion; Appendix A Conversion Tables Between Imperial and SI Units; Appendix B Thevenin's Theorem; Appendix C Thermocouple Tables. Measurement and Instrumentation introduces undergraduate Sommario/riassunto engineering students to the measurement principles and the range of sensors and instruments that are used for measuring physical variables. Based on Morris's Measurement and Instrumentation

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