1. Record Nr. UNINA9910458257003321 Upp E. L. <1927-> Autore Titolo Fluid flow measurement [[electronic resource]]: a practical guide to accurate flow measurement / / E.L. Upp, Paul J. LaNasa Boston, : Gulf Professional Pub., c2002 Pubbl/distr/stampa **ISBN** 1-282-33004-7 9786612330049 0-08-050660-7 Edizione [2nd ed.] Descrizione fisica 1 online resource (275 p.) LaNasaPaul J. <1941-> Altri autori (Persone) Disciplina 681/.28 Soggetti Flow meters Fluid dynamic measurements Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Front Cover; Fluid Flow Measurement: A Practical Guide to Accurate Flow Measurement; Copyright Page; Contents; Dedication; Preface; CHAPTER 1. Introduction; Chapter Overview; Requisites of Flow Measurement: Background of Flow Measurement: History of Flow Measurement; Definition of Terms; CHAPTER 2. Basic Flow Measurement Laws; Reynolds Number; Gas Laws; Expansion of Liquids; Fundamental Flow Equation; References; CHAPTER 3. Types of Fluid Flow Measurement; Custody Transfer; Non-Custody Transfer Measurement; References; CHAPTER 4. Basic Reference Standards; American Gas Association (AGA) American Petroleum Institute (API)American Society of Mechanical Engineers (ASME); American Society of Testing Materials (ASTM); Gas Processors Association (GPA); Instrument Society of America (ISA); CHAPTER 5. From Theory to Practice; ""Ideal"" Installations; Non-Ideal Installations: Fluid Characteristics Data: References: CHAPTER 6. Fluids: Fluids-Liquids and Gases; Fluid Characteristics; Liquids; References;

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Sommario/riassunto

There is a tendency to make flow measurement a highly theoretical and technical subject but what most influences quality measurement is the practical application of meters, metering principles, and metering equipment and the use of quality equipment that can continue to function through the years with proper maintenance have the most influence in obtaining quality measurement. This guide provides a review of basic laws and principles, an overview of physical characteristics and behavior of gases and liquids, and a look at the dynamics of flow. The authors examine applications of specific met