Record Nr. UNINA9910831026003321 Metrology in industry [[electronic resource]]: the key for quality // **Titolo** [edited by] French College of Metrology Pubbl/distr/stampa London;; Newport Beach, CA,: ISTE, 2006 **ISBN** 1-280-51063-3 9786610510634 1-84704-501-4 0-470-61212-6 0-470-39478-1 1-84704-601-0 Descrizione fisica 1 online resource (272 p.) Collana ISTE;; v.113 Disciplina 620 620.0045 620/.0045 Soggetti Quality control Metrology 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. Metrology in Industry; Table of Contents; Preface; Foreword; Chapter 1. Nota di contenuto Analysis of the Metrological Requirements Needed to Ensure Quality; 1.1. Introduction; 1.2. Definition of the objectives; 1.3. Choice of the method of measurement; 1.3.1. Accounting for the selection of the method; 1.3.2. Defining the method and the principle to implement; 1.4. Choice of the means of measurement; 1.4.1. Introduction; 1.4.2. Analysis of what is already available; 1.4.3. Assessment and acquisition of material; 1.4.4. Technical criteria; 1.4.4.1. Basic characteristics 1.4.4.2. Comportment towards influence quantities 1.4.4.3. Durability of the instruments used; 1.4.4.4. Homogeneity of the supply of instruments; 1.4.4.5. Quality of the supplier's service; 1.4.4.6. Adaptation of the instrument: 1.4.4.7. Possibility of traceability: 1.4.4.8. Computerization and the speed of taking measurements; 1.4.4.9. Ergonomics; 1.4.4.10. Capability of measuring instruments;

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Sommario/riassunto

Metrology is an integral part of the structure of today's world: navigation and telecommunications require highly accurate time and frequency standards; human health and safety relies on authoritative measurements in diagnosis and treatment, as does food production and trade; global climate studies also depend on reliable and consistent data. Moreover, international trade practices increasingly require institutions to display demonstrated conformity to written standards and specifications. As such, having relevant and reliable results of measurements and tests in compliance with mutually rec