

1. Record Nr.	UNINA9910787646003321
Autore	Chunovkina Anna G
Titolo	Metrology and theory of measurement // Valery A. Slaev, Anna G. Chunovkina, Leonid A. Mironovsky
Pubbl/distr/stampa	Berlin ; ; Boston : , : De Gruyter, , [2013] ©2013
ISBN	1-68015-212-2 3-11-028482-0
Descrizione fisica	1 online resource (584 p.)
Collana	De Gruyter Studies in Mathematical Physics ; ; 20
Classificazione	UX 1100
Altri autori (Persone)	MironovskiiL. A (Leonid Alekseevich) SlaevValery A
Disciplina	389/.1
Soggetti	Measurement - Standards 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 (pages 512-544) and index.
Nota di contenuto	Front matter -- Preface -- Contents -- Abbreviations -- Chapter 1. International measurement system -- Chapter 2. Systems of reproducing physical quantities units and transferring their sizes -- Chapter 3. Potential measurement accuracy -- Chapter 4. Algorithms for evaluating the result of two or three measurements -- Chapter 5. Metrological traceability of measurement results (illustrated by an example of magnetic recording instruments) -- Chapter 6. Validation of software used in metrology -- Bibliography -- Index
Sommario/riassunto	Metrology is the science of measurements. It is traceable to measurement standards, thus to the concept of measurement accuracy, which is used in all natural and technical sciences, as well as in some fields of social sciences and liberal arts. The key problem is one of obtaining knowledge of the physical reality, which is observed through a prism of an assemblage of quantity properties describing the objectively-real world. One of the fundamental tasks of metrology is the development of theoretical and methodological aspects of the procedure of getting an accurate knowledge relating to objects