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Descrizione fisica	1 online resource (201 pages)
Collana	Lecture Notes in Chemistry, , 0342-4901 ; ; 101
Disciplina	389.1015195
Soggetti	Analytical chemistry Physical measurements Measurement Environmental monitoring Analytical Chemistry Measurement Science and Instrumentation Monitoring/Environmental Analysis
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction -- General aspect of metrology -- Metrological infrastructure -- System of units -- Metrological traceability Testing and calibration -- Chemical reference materials -- Validation of the measurement procedure -- Uncertainty of results -- Quality management -- Inter-laboratory Comparisons (ILC)/Proficiency Testing (PT) -- Accreditation of chemical laboratories -- Basic operation on numbers.
Sommario/riassunto	In this concise book, the author presents the essentials every chemist needs to know about how to obtain reliable measurement results. Starting with the basics of metrology and the metrological infrastructure, all relevant topics – such as traceability, calibration, chemical reference materials, validation and uncertainty – are covered. In addition, key aspects of laboratory management, including quality management, inter-laboratory comparisons, proficiency testing, and accreditation, are addressed. .