

Pendrill

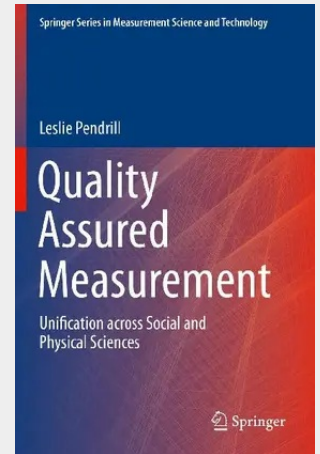
Quality Assured Measurement

Unification across Social and Physical Sciences

This book presents a general and comprehensive framework for the assurance of quality in measurements. Written by a foremost expert in the field, the text reflects an on-going international effort to extend traditional quality assured measurement, rooted in fundamental physics and the SI, to include non-physical areas such as person-centred care and the social sciences more generally. Chapter by chapter, the book follows the measurement quality assurance loop, based on Deming's work. The author enhances this quality assurance cycle with insights from recent research, including work on the politics and philosophy of metrology, the new SI, quantitative and qualitative scales and entropy, decision risks and uncertainty when addressing human challenges, Man as a Measurement Instrument, and Psychometry and Person-centred care.

Quality Assured Measurement: Unification across Social and Physical Sciences provides students and researchers in physics, chemistry, engineering, medicine and the social sciences with practical guidance on designing, implementing and applying a quality-assured measurement while engaging readers in the most novel and expansive areas of contemporary measurement research.

Provides a unified view of measurement for quality assurance of essentially any product, process or service Presents step-by-step guidance from specification, through measurement to decisions on conformity Illustrates each step in quality-assurance cycles with examples and case studies Presents a common metrological framework covering 'grand challenge' areas such as where cosmological and microscopic dimensions meet, and where human cognitive ability correlates with the structure and functioning of the brain Includes pragmatic extensions of significance testing, including optimised uncertainties



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