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Physical Parameters and Calibration of Instruments

Elsevier

This volume contains original and refereed contributions from the tenth AMCTM Conference (<http://www.nviim.ru/AMCTM2014>) held in St. Petersburg (Russia) in September 2014 on the theme of advanced mathematical and computational tools in metrology and testing. The themes in this volume reflect the importance of the mathematical, statistical and numerical tools and techniques in metrology and testing and, also keeping the challenge promoted by the Metre Convention, to access a mutual recognition for the measurement standards. Contents: *Fostering Diversity of Thought in Measurement Science* (F Pavese and P De Bièvre) *Polynomial Calibration Functions Revisited: Numerical and Statistical Issues* (M G Cox and P Harris) *Empirical Functions with Pre-Assigned Correlation Behaviour* (A B Forbes) *Models and Methods of Dynamic Measurements: Results Presented by St. Petersburg Metrologists* (V A Granovskii) *Interval Computations and Interval-Related Statistical Techniques: Estimating Uncertainty of the Results of Data Processing and Indirect Measurements* (V Ya Kreinovich) *Classification, Modeling and Quantification of Human Errors in Chemical Analysis* (I Kuselman) *Application of Nonparametric Goodness-of-Fit Tests: Problems and Solution* (B Yu Lemeshko) *Dynamic Measurements Based on Automatic Control Theory Approach* (A L Shestakov) *Models for the Treatment of Apparently Inconsistent Data* (R Willink) *Model for Emotion Measurements in Acoustic Signals and Its Analysis* (Y Baksheeva, K Sapozhnikova and R Taymanov) *Uncertainty Calculation in Gravimetric Microflow Measurements* (E Batista, N Almeida, I Godinho and E Filipe) *Uncertainties Propagation from Published Experimental Data to Uncertainties of Model Parameters Adjusted by the Least Squares* (V I Belousov, V V Ezhela, Y V Kuyanov, S B Lugovsky, K S Lugovsky and N P Tkachenko) *A New Approach for the Mathematical Alignment Machine Tool-Paths on a Five-Axis Machine and Its Effect on Surface Roughness* (S Boukebbab, J Chaves-Jacob, J-M Linares and N Azzam) *Goodness-of-Fit Tests for One-Shot Device Testing Data* (E V Chimitova and N Balakrishan) *Calculation of Coverage Intervals: Some Study Cases* (A Stepanov, A Chunovkina and N Burmistrova) *Application of Numerical Methods in Metrology of Electromagnetic Quantities* (M Cundeve-Blajer) *Calibration Method of Measuring Instruments in Operating Conditions* (A A Danilov, Yu V Kucherenko, M V Berzhinskaya, N P Ordinartseva) *Statistical Methods for Conformity Assessment When Dealing with Computationally Expensive Systems: Application to a Fire Engineering Case Study* (S Demeyer, N Fischer, F Didieux and M Binacchi) *Overview of EMRP*

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 Keywords: Mathematics; Statistics; Modeling; Uncertainty; Metrology; Testing; Computational Tools; Measurement Science
Engineering Metrology and Measurements Walter de Gruyter GmbH & Co KG
 This handbook is a both a description of the current practice at the National Institute of Standards and Technology, and a compilation of the theory and lore of gauge block calibration. Most of the chapters are nearly self-contained so that the interested reader can, for example, get information on the cleaning and handling of gauge blocks without having to read the chapters on measurement schemes or process control, etc. This partitioning of the material has led to some unavoidable repetition of material between chapters. The basic structure of the handbook is from the theoretical to the practical. Chapter 1: basic concepts and definitions of length and units; Chapter 2: history of gauge blocks, appropriate definitions and a discussion of pertinent national and international standards; Chapter 3: physical characteristics of gauge blocks, including thermal, mechanical and optical properties; Chapter 4: a description of statistical process control (SPC) and measurement assurance (MA) concepts; and Chapters 5 and 6: details of the mechanical comparisons and interferometric techniques used for gauge block calibrations. Full discussions of the related uncertainties and corrections are included. Finally, the appendices cover in more detail some important topics in metrology and gauge block calibration.

Publications of the National Bureau of Standards ...

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Overview: The proper application of a calibration system is one of the most important areas in which quality-assurance personnel can positively affect the low quality high costs associated with poorly manufactured products. Learn how to implement an effective calibration system, one that can be the foundation of your organizations inspection systems and quality programs. This book provides an easy to understand explanation of metrology systems and is updated to reflect the ANSI/ISO/ASQC Q9000 standards. Technicians can increase their ability to maintain instruments of known accuracy and case studies help you understand exactly how to apply the book's principles.

Springer Nature

Calibration Handbook of Measuring Instruments is mainly written for operators involved in verifying and calibrating measuring instruments used in Quality Management Systems ISO 9001, Environment Applications ISO 14001, Automotive Industry ISO 16949, and Aviation Industry EN 9100. It is a handy reference and consultation handbook that covers useful topics on assuring and managing industrial process measurement, such as: -The general concepts for managing measurement equipment according to the ISO 10012 concerning the management system of instruments and measurements -An instrument's suitability to perform accurate measurements and control the drift to maintain the quality of the measurement process -The criteria and procedures for accepting, managing, and verifying the calibration of the main industrial measuring instruments -The provisions of law and regulations for production, European marking CE of metrological instruments used in commercial transaction and for their periodic verification Report templates that are useful for recording both the recorded instrument data and the experimental calibration data and evaluating the conformity of the instrument, are available on a CD for practical use. The CD also contains various spreadsheets in Excel, Reports Calibration, which automatically calculate errors and the relative measurement uncertainty for determining a calibrated instrument's compliance.

Metrology of Automated Tests Springer

The Metrology Automated System for Uniform Recall and Reporting (MEASURE) is a data processing system designed to provide participating activities with a standardized system for the recall and scheduling of Test, Measuring, and Diagnostic Equipment (TMDE) into calibration facilities and for the documentation of data pertaining to calibration actions performed by these facilities, as well as for reporting all actions performed on those equipments. MEASURE also provides for the collection, correction, analysis and collation of data as well as distribution of data and products/formats to requiring activities.

Publications of the National Institute of Standards and Technology ... Catalog Springer Science & Business Media

The measurement and characterisation of surface topography is crucial to modern manufacturing industry. The control of areal surface structure allows a manufacturer to radically alter the functionality of a part. Examples include structuring to effect fluidics, optics, tribology, aerodynamics and biology. To control such manufacturing methods requires measurement strategies. There is now a large range of new optical techniques on the market, or being developed in academia, that can measure areal surface topography. Each method has its strong points and limitations. The book starts with introductory chapters on optical instruments, their common language, generic features and limitations, and their calibration. Each type of modern optical instrument is described (in a common format) by an expert in the field. The book is intended for both industrial and academic scientists and engineers, and will be useful for undergraduate and postgraduate studies.

Dimensional Metrology, Subject-classified with Abstracts Through 1964 Springer Science & Business Media

This NIST IR of Selected Publications has been updated from the 2006 version and includes Good Laboratory Practices, Good Measurement Practices, and Standard Operating Procedures for volumetric calibrations.

Making Valuable Measurements Asq Press

This book offers an in-depth discussion related to metrological aspects of automated tests. The accuracy of experimental estimates of test object performance is examined from the standpoint of their statistical variance and systematic biases. The proposed metrological model of automated tests allows to determine the metrological characteristics of measurement means using data from their static and dynamic calibrations. Knowledge of these characteristics provides an ability to examine

their impact on the accuracy of test results for the purposes of estimating statistical uncertainties caused by instrumentation errors and eliminating biases that occur as a consequence of inertial properties of measurement means. Optimization of requirements for measurement errors to ensure a given accuracy of test results is discussed as well. Proposed approaches and described methods are illustrated by test examples of turbomachinery products.

Metrology of Automated Tests Springer

Measurement Uncertainties Physical Parameters and Calibration of Instruments Springer Science & Business Media

NAVELEX Calibration Program World Scientific

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.

Shipboard Electronics Material Officer ASQ Quality Press

This book offers an in-depth discussion related to metrological aspects of automated tests. The accuracy of experimental estimates of test object performance is examined from the standpoint of their statistical variance and systematic biases. The proposed metrological model of automated tests allows to determine the metrological characteristics of measurement means using data from their static and dynamic calibrations. Knowledge of these characteristics provides an ability to examine their impact on the accuracy of test results for the purposes of estimating statistical uncertainties caused by instrumentation errors and eliminating biases that occur as a consequence of inertial properties of measurement means. Optimization of requirements for measurement errors to ensure a given accuracy of test results is discussed as well. Proposed approaches and described methods are illustrated by test examples of turbomachinery products.

International Conference on Mechanism Science and Control Engineering (MSCE 2014) Routledge

The aim of MSCE 2014 is to provide a platform for researchers, engineers, and academicians, as well as industrial professionals, to present their research results and development activities in mechanism science and control engineering. It provides opportunities for the delegates to exchange new ideas and application experiences, to establish business or research relations and to find global partners for future collaboration. MSCE2014 is conducted to all the researchers, engineers, industrial professionals and academicians, who are broadly welcomed to present their latest research results, academic developments or theory practice. Topics of interest include but are not limited to Mechanism theory and Application, Mechanical control and Automation Engineering, Mechanical Dynamics, Materials Processing and Control, Instruments and Vibration Control. It is of great pleasure to see the delegates exchanging ideas and establishing sound relationships on the conference.

Managing the Metrology System DEStech Publications, Inc Engineering Metrology and Measurements is a textbook designed for students of mechanical, production and allied disciplines to facilitate learning of various shop-floor measurement techniques and also understand the basics of mechanical measurements.

Gunner's Mate Chief Springer Science & Business Media

Maximizing reader insights into the key scientific disciplines of Machine Tool Metrology, this text will prove useful for the industrial-practitioner and those interested in the operation of machine tools. Within this current level of industrial-content, this book incorporates significant usage of the existing published literature and valid information obtained from a wide-spectrum of manufacturers of plant, equipment and instrumentation before putting forward novel ideas and methodologies. Providing easy to understand bullet points and lucid descriptions of metrological and calibration subjects, this book aids reader understanding of the topics discussed whilst adding a voluminous-amount of footnotes utilised throughout all of the chapters, which adds some additional detail to the subject. Featuring an extensive amount of photographic-support, this book will serve as a key reference text for all those involved in the field.

NBS Special Publication Lulu.com

"The Measurement Quality Division, ASQ."

Shipboard Electronics Material Officer Walter de Gruyter GmbH & Co KG

Excerpt from Catalog of Federal Metrology and Calibration

Capabilities Key words: Calibration; Federal Government; laboratory; measurement; metrology; precision; test equipment.

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An Industrial Handbook Createspace Independent Publishing Platform

Traceable calibration of test and measurement equipment is a requirement of the ISO 9000 series of standards. Basic Metrology for ISO 9000 Certification provides essential information for the growing number of firms registered for ISO 9000. Dr. G.M.S. de Silva who has a lifetime of experience in metrology and quality management fields condenses that knowledge in this valuable and practical workbook. The book provides a basic understanding of the principles of measurement and calibration of measuring instruments falling into the following fields; Length, Angle, Mass, Pressure, Force, Temperature and AC/DC Electrical quantities. Basic concepts and definitions, ISO 9001 requirements and uncertainty determinations are also included.

OUP India

This book provides an overview of the application of statistical methods to problems in metrology, with emphasis on modelling measurement processes and quantifying their associated uncertainties. It covers everything from fundamentals to more advanced special topics, each illustrated with case studies from the authors' work in the Nuclear Security Enterprise (NSE). The material provides readers with a solid understanding of how to apply the techniques to metrology studies in a wide variety of contexts. The volume offers particular attention to uncertainty in decision making, design of experiments (DOEx) and curve fitting, along with special topics such as statistical process control (SPC), assessment of binary measurement systems, and new results on sample size selection in metrology studies. The methodologies presented are supported with R script when appropriate, and the code has been made available for readers to use in their own applications. Designed to promote collaboration between statistics and metrology, this book will be of use to practitioners of metrology as well as students and researchers in statistics and engineering disciplines.

Static and Dynamic Characteristics Springer Science & Business Media

Systems Approach to Appropriate Technology Transfer is a collection of selected papers presented at the International Federation of Automatic Control (IFAC) Symposium, held in Vienna, Austria. The objective of the symposium is to analyze the transfer process of technologies by using the systems approach and gather insights that can be used for the enhancement of future transfer programs. The book is a rich presentation of articles and research papers from scientists and engineers from all over the world, and is composed of introductory, technical discussion, and round table discussion papers. The introductory papers give insights to the concepts of technology transfer, systems approach, and use of appropriate technologies. The technical discussions touch on technology transfer in selected fields, energy technologies, flexible manufacturing systems, information and communication, social and educational aspects, and case studies. The four round table discussions focus on the application of technologies to support small-scale enterprises and users' participation; appropriate technology transfer on microelectronics; policies and strategies for appropriate technology transfer; and the impact of informatics on technology transfer. The text will appeal to computer scientists, engineers, policymakers, and students of information technology.

Introduction to Statistics in Metrology CreateSpace

This book provide a comprehensive set of modeling methods for data and uncertainty analysis, taking readers beyond mainstream methods and focusing on techniques with a broad range of real-world applications. The book will be useful as a textbook for graduate students, or as a training manual in the fields of calibration and testing. The work may also serve as a reference for metrologists, mathematicians, statisticians, software engineers, chemists, and other practitioners with a general interest in measurement science.

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