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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. This book is a reference guide for the new field of biomedical engineering and discusses introductory material on the topic. This Springer Handbook of Metrology and Testing presents the principles of Metrology – the science of measurement – and the methods and techniques of Testing – determining the characteristics of a given product – as they apply to chemical and microstructural analysis, and to the measurement and testing of materials properties and performance, including modelling and simulation. The principal motivation for this Handbook stems from the increasing demands of technology for measurement results that can be used globally. Measurements within a local laboratory or manufacturing facility must be able to be reproduced accurately anywhere in the world. The book integrates knowledge from basic sciences and engineering disciplines, compiled by experts from internationally known metrology and testing institutions, and academe, as well as from industry, and conformity-assessment and accreditation bodies. The Commission of the European Union has expressed this as there is no science without measurements, no quality without testing, and no global markets without standards. This volume contains original, refereed worldwide contributions. They were prompted by presentations made at the ninth AMCTM Conference held in Göteborg (Sweden) in June 2011 on the theme of advanced mathematical and computational tools in metrology and also, in the title of this book series, in testing. The themes in this volume reflect the importance of the mathematical, statistical and numerical tools and techniques in metrology and testing and, also in keeping the challenge promoted by the Metre Convention, to access a mutual recognition for the measurement standards. Contents: Recommended Tools for Sensitivity Analysis Associated to the Evaluation of Measurement Uncertainty (A Allard and N Fischer) Case Study of Likelihood and Bayes Approaches for Measurement Based on Nonlinear Regression (A Bariska and R Bürgin) Uncertainty Modeling in 3D SEM Stereophotogrammetry (L Carli, M Galetto and G Genta) Software to Support the Use of GUM Supplement 2 — Extension to Any Number of Output Quantities (M G Cox, P M Harris and I M Smith) Probabilistic Characterization of Face Measurement (F Crenna, G B Rossi and L Bovio) Modeling Expert Knowledge to Assign Consensus Values in Proficiency Tests (S Demeyer and N Fischer) A Two-Stage MCM/MCMC Algorithm for Uncertainty Evaluation (A B Forbes) Data Fusion Techniques for Cylindrical Surface Measurements (M Galovska, R Tutsch and O Jusko) Stochastic Modeling Aspects for an Improved Solution of the Inverse Problem in Scatterometry (H Gross, M-A Henn, A Rathsfeld and M Bär) On the Difference of Meanings of “Zero Correction”: Zero Value Versus No Correction, and of the Associated Uncertainties (F Pavese) Uncertainty & Risks in Decision-Making in Qualitative Measurement: An Information-Theoretical Approach (L R Pendrill) Theory of AND Computation Program for Determination of the Reference Value in Key Comparisons Based on Bayesian Statistics (K Shirono, H Tanaka and K Ehara) and other papers Readership: Researchers, graduate students, academics and professionals in metrology. Keywords: Mathematics; Statistics; Modeling; Uncertainty; Metrology; Testing; Computational Tools; Measurement Science Key Features: Unique consolidated series of books (started in 1993) in mathematics, statistics and software specifically for metrology and testing Authors are among the most prominent in the metrology and testing fields No competing books in the same comprehensive set of fields Covering numerous practical applications as yet not covered in any single source of information, this monograph discusses the importance of viscous and elastic properties for applications in both display and non-display technologies. The very well-known authors are major

players in this field of research and pay special attention here to the use of liquid crystals in fiber optic devices as applied in telecommunication circuits. The Third Edition of this text offers a straight forward and clear introduction to the basics of psychological testing as well as to psychometrics and statistics for students new to the field. The authors focus on relating core ideas to practical situations that students will recognize and relate to. They provide a variety of pedagogical tools that promote student understanding of the underlying concepts required to interpret and to use test scores. Primarily concerned with preparing students to become informed consumers and users of tests, the text also features a final section focusing on how tests are utilized in three important settings: education, clinical and counseling practice, and organizations. Intended Audience: This is a scholarly, informative, applicable, and appropriate undergraduate and graduate textbook ideal for introductory courses such as Psychological Testing, Psychological Tests & Measures, and Testing & Measurement in departments of psychology and education; and graduate programs in psychology, industrial / organizational psychology, and counseling. Measurements with persons are those in which human perception and interpretation are used for measuring complex, holistic quantities and qualities, which are perceived by the human brain and mind. Providing means for reproducible measurement of parameters such as pleasure and pain has important implications in evaluating all kind of products, services, and conditions. This book inaugurates a new era for this subject: a multi- and inter-disciplinary volume in which world-renowned scientists from the psychological, physical, biological, and social sciences reach a common understanding of measurement theory and methods. In the first section, generic theoretical and methodological issues are treated, including the conceptual basis of measurement in the various fields involved; the development of formal, representational, and probabilistic theories; the approach to experimentation; and the theories, models, and methods for multidimensional problems. In the second section, several implementation areas are presented, including sound, visual, skin, and odor perception, functional brain imagining, body language and emotions, and, finally, the use of measurements in decision making. Measurement with Persons will appeal to a wide audience across a range of sciences, including general psychology and psychophysics, measurement theory, metrology and instrumentation, neurophysiology, engineering, biology, and chemistry. This Handbook compiles advanced methods for materials measurement and characterization from the macroscopic to the nano-scale. Materials professionals need not only handbooks of materials data but clear guidelines and standards for how to measure the full spectrum of materials characteristics of new materials and systems. Since materials science forms a bridge between the more traditional fields of physics, engineering, and chemistry, unifying the varying perspectives and covering the full gamut of properties also serves a useful purpose. This handbook is the first dedicated to these practical and important considerations. Communication research is evolving and changing in a world of online journals, open-access, and new ways of obtaining data and conducting experiments via the Internet. Although there are generic encyclopedias describing basic social science research methodologies in general, until now there has been no comprehensive A-to-Z reference work exploring methods specific to communication and media studies. Our entries, authored by key figures in the field, focus on special considerations when applied specifically to communication research, accompanied by engaging examples from the literature of communication, journalism, and media studies. Entries cover every step of the research process, from the creative development of research topics and questions to literature reviews, selection of best methods (whether quantitative, qualitative, or mixed) for analyzing research results and publishing research findings, whether in traditional media or via new media outlets. In addition to expected entries covering the basics of theories and methods traditionally used in communication research, other entries discuss important trends influencing the future of that research, including contemporary practical issues students will face in communication professions, the influences of globalization on research, use of new recording technologies in fieldwork, and the challenges and opportunities related to studying online multi-media environments. Email, texting, cellphone video, and blogging are shown not only as topics of research but also as means of collecting and analyzing data. Still other entries delve into considerations of accountability, copyright, confidentiality, data ownership and security, privacy, and other aspects of conducting an ethical research program. Features: 652 signed entries are contained in an authoritative work spanning four volumes available in choice of electronic or print formats. Although organized A-to-Z, front matter includes a Reader's Guide grouping entries thematically to help students interested in a specific aspect of communication research to more easily locate directly related entries. Back matter includes a Chronology of the development of the field of communication research; a Resource Guide to classic books, journals, and associations; a Glossary introducing the terminology of the field; and a detailed Index. Entries conclude with References/Further Readings and Cross-References to related entries to guide students further in their research journeys. The Index, Reader's Guide themes, and Cross-References combine to provide robust search-and-browse in the e-version. Discover how to gauge your online success based on social media metrics. With so many social media monitoring and measurement tools available, it can be overwhelming to figure out which tool is right for you when it comes to calculating the success of your social media marketing efforts. This fun and friendly guide helps

you determine which tool will serve you best for understanding your online audience. You'll learn to sift through all the information available about social media monitoring and metrics so that you can listen to what is being said about your business, read your analytic dashboard, understand what metrics mean for you, calculate your return on investment (ROI), and apply your findings to future social media marketing campaigns. Helps you wade through the plethora of social media monitoring and metrics to discover what elements are most applicable to your needs Explains the meaning behind the social media metrics tools so that you can understand how to make those results work for you Shares examples of how to calculate both the financial and non-financial return on investment of your social media efforts Includes real-world case studies that demonstrate how small and large businesses are using social media metrics With this helpful book by your side, you will learn how to understand the information you acquire regarding your social media marketing efforts and then put that information to work for your business. Hot-wire turbulence-measuring equipment has been developed to meet the more-stringent requirements involved in the measurement of fluctuations in flow parameters at supersonic velocities. The higher mean speed necessitates the resolution of higher frequency components than at low speed, and the relatively low turbulence level present at supersonic speed makes necessary an improved noise level for the equipment. The equipment covers the frequency range from 2 to 70,000 cycles per second. The equipment is adaptable to all-purpose turbulence work with improved utility and accuracy over that of older types of equipment. Sample measurements are given to demonstrate the performance. Measurements of free-space oscillating pressures near a static propeller in the region where a wing might be located are presented for the tip Mach number range of 0.50 to 1.20 and these results are compared with available theory. Some measurements are also presented which were made near the tips in the region where a fuselage might be located in order to extend the range of existing data from a tip Mach number of 1.00 to 1.20. In addition to a description of the free-space pressure field, measurements are given from some of the same field points with a wing in place.

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