Springer Series in Measurement Science and Technology

Semyon G. Rabinovich

Evaluating Measurement Accuracy

A Practical Approach

Third Edition



Evaluating Measurement Accuracy A Practical Approach

Gary Hunter, Kim Lowell

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Evaluating Measurement Accuracy Semyon G. Rabinovich, 2017-09-05 This book presents a systematic and comprehensive exposition of the theory of measurement accuracy and provides solutions that fill significant and long standing gaps in the classical theory It eliminates the shortcomings of the classical theory by including methods for estimating accuracy of single measurements the most common type of measurement The book also develops methods of reduction and enumeration for indirect measurements which do not require Taylor series and produce a precise solution to this problem It produces grounded methods and recommendations for summation of errors The monograph also analyzes and critiques two foundation metrological documents the International Vocabulary of Metrology VIM and the Guide to the Expression of Uncertainty in Measurement GUM and discusses directions for their revision This new edition adds a step by step guide on how to evaluate measurement accuracy and recommendations on how to calculate systematic error of multiple measurements There is also an extended section on the method of reduction which provides an alternative to the least square method and the method of enumeration Many sections are also rewritten to improve the structure and usability of the material The 3rd edition reflects the latest developments in metrology and offers new results and it is designed to be accessible to readers at various levels and positions including scientists engineers and undergraduate and graduate students By presenting material from a practical perspective and offering solutions and recommendations for problems that arise in conducting real life measurements author Semyon Rabinovich offers an invaluable resource for scientists in any field

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planning process Yet these two tasks are usually performed by people with only limited training in either area because most firms do not have full time forecasters market analysts. The authors acknowledge this situation and attempt to describe the key techniques for forecasting sales and analyzing markets in a format that meets the needs of an audience with limited quantitative skills In addition to its basic approach another strength of this book is that it combines the coverage of two key activities forecasting and market analysis that are performed by the same person in most middle sized and smaller firms The book s contents and format were designed with two audiences in mind persons assigned to develop forecasts and market analyses but who are not specialists in either area and persons who will be incorporating these results in their planning and decision making The major portion of the book is devoted to the three basic categories of forecasting models time series causal and judgmental emphasizing the most widely used models in each category Special attention is also given to the sources for obtaining the data needed to make forecasts and analyze markets The latter part of the book describes procedures for developing market and sales potentials methods for segmenting markets and some analytic techniques such as conjoint analysis and cluster analysis gaining increased usage among market analysts Accuracy 2002 Gary Hunter, Kim Lowell.2002 Proceedings, 55th Annual California Regional Meeting, March 27-29, 1985, Bakersfield, California Society of Petroleum Engineers of AIME. California Regional Meeting, 1985 Environmental Engineering Society of Environmental Engineers (Great Britain), 1965

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