Uncertainty, Calibration and Probability: The Statistics of Scientific and Industrial Measurement (Hardback)

By C. F. Dietrich

Taylor Francis Ltd, United Kingdom, 2000. Hardback. Book Condition: New. 2nd ed.. 236 x 155 mm. Language: English . Brand New Book ***** Print on Demand *****.All measurements are subject to error because no quantity can be known exactly; hence, any measurement has a probability of lying within a certain range. The more precise the measurement, the smaller the range of uncertainty. Uncertainty, Calibration and Probability is a comprehensive treatment of the statistics and methods of estimating these calibration uncertainties. The book features the general theory of uncertainty involving the combination (convolution) of non-Gaussian, student t, and Gaussian distributions; the use of rectangular distributions to represent systematic uncertainties; and measurable and nonmeasurable uncertainties that require estimation. The author also discusses sources of measurement errors and curve fitting with numerous examples of uncertainty case studies. Many useful tables and computational formulae are included as well. All formulations are discussed and demonstrated with the minimum of mathematical knowledge assumed. This second edition offers additional examples in each chapter, and detailed additions and alterations made to the text. New chapters consist of the general theory of uncertainty and applications to industry and a new section discusses the use of orthogonal polynomials in curve...

Reviews

Definitely one of the better book We have possibly read. We have read through and i also am certain that i am going to gonna study once again yet again in the foreseeable future. Once you begin to read the book, it is extremely difficult to leave it before concluding.
-- Enrique Labadie

This book might be worth a read, and far better than other. It is rally interesting throgh studying time period. I discovered this book from my i and dad suggested this ebook to find out.
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