

## Section 3.1

# Measurements and Their Uncertainty

- OBJECTIVES:
  - Distinguish among accuracy, precision, and error of a measurement.

## Section 3 1 Measurements And Their Uncertainty

**American Chemical Society**



### **Section 3 1 Measurements And Their Uncertainty:**

*Measurements and their Uncertainties* Ifan Hughes, Thomas Hase, 2010-07-02 This hands on guide is primarily intended to be used in undergraduate laboratories in the physical sciences and engineering It assumes no prior knowledge of statistics It introduces the necessary concepts where needed with key points illustrated with worked examples and graphic illustrations In contrast to traditional mathematical treatments it uses a combination of spreadsheet and calculus based approaches suitable as a quick and easy on the spot reference The emphasis throughout is on practical strategies to be adopted in the laboratory Error analysis is introduced at a level accessible to school leavers and carried through to research level Error calculation and propagation is presented through a series of rules of thumb look up tables and approaches amenable to computer analysis The general approach uses the chi square statistic extensively Particular attention is given to hypothesis testing and extraction of parameters and their uncertainties by fitting mathematical models to experimental data Routines implemented by most contemporary data analysis packages are analysed and explained The book finishes with a discussion of advanced fitting strategies and an introduction to Bayesian analysis

*System Identification (SYSID '03)* Paul Van Den Hof, Bo Wahlberg, Siep Weiland, 2004-06-29 The scope of the symposium covers all major aspects of system identification experimental modelling signal processing and adaptive control ranging from theoretical methodological and scientific developments to a large variety of engineering application areas It is the intention of the organizers to promote SYSID 2003 as a meeting place where scientists and engineers from several research communities can meet to discuss issues related to these areas Relevant topics for the symposium program include Identification of linear and multivariable systems identification of nonlinear systems including neural networks identification of hybrid and distributed systems Identification for control experimental modelling in process control vibration and modal analysis model validation monitoring and fault detection signal processing and communication parameter estimation and inverse modelling statistical analysis and uncertainty bounding adaptive control and data based controller tuning learning data mining and Bayesian approaches sequential Monte Carlo methods including particle filtering applications in process control systems motion control systems robotics aerospace systems bioengineering and medical systems physical measurement systems automotive systems econometrics transportation and communication systems Provides the latest research on System Identification Contains contributions written by experts in the field Part of the IFAC Proceedings Series which provides a comprehensive overview of the major topics in control engineering

Custody Transfer and Fiscal Flow Measurement by Ultrasonic Meters Alcir de Faro Orlando, 2024-05-21 This book describes how to calibrate measure and specify ultrasonic flow meters to ensure that the legal metrology requirements are met in custody transfer and fiscal applications This book is intended for metrologists who are in charge of specifying ultrasonic flow meters calibrating or accurately measuring water oil and natural gas flowrate in custody transfer and fiscal measurement applications and require a deep knowledge of the measurement principles and the

results that can be achieved so that the legal metrology requirements can be met      **Proceedings of the U.S. Nuclear  
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 Standards, Gaithersburg, Maryland, October 26-30, 1981** Water Reactor Safety Research Information Meeting, 1982  
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