

A-2 MEASUREMENT AND UNCERTAINTY ANALYSIS (Manual)

OBJECTIVES:

- 1) To understand standard error determination
- 2) To understand standard error propagation
- 3) To understand determination of standard deviation/standard error
- 4) To understand standard uncertainty and its propagation
- 5) To understand significant figures and its correct use.
- 6) To know what is standard form

INTRODUCTION:

In your laboratory work in this physics course you will observe that when you make repeated measurements of a physical quantity the measurements do not exactly agree. These slight physical variations are made insignificant in the following systematic manner: the measured value (or measurements) are given uncertainty and shown to be by using error. An important thing (before the starting) of this course is that we always make clear the way to the experiment and measurement. Consequently, we will study and use the following rules throughout the course.

Reasons of errors and uncertainties:

There are two general categories of possible errors and uncertainties:

Systematic errors: are the type of errors that cannot be removed. The following diagram may be able to give an insight to a reason that is not sufficient. Diagrams may be a systematic error because of faulty methods or technique or because of a failure to recognize physical factors which produce an error or lack of knowledge of the physical factor is not taken as through the use of systematic setting up.

Random errors: are errors which are caused by the random nature of the measurement. These random errors affect the operation, the data value and the measurement being measured. Consequently, repeated measurements of a physical quantity will not produce identical value.

In our study of the physics course we will understand all of these errors and their best measures. However, we will use systematic uncertainties and random errors.

Accuracy versus Precision

In physics measurements there are words used to describe the measurements.

Accuracy: refers to the closeness of results that is required when making correct measurements. Measurements are made of the same.

$$\text{Accuracy} = \frac{\text{measured} - \text{actual}}{\text{measured}}$$

Precision: refers to how close the measured value is to the true value.

Uncertainty Analysis Manual

Clarence W. de Silva



Uncertainty Analysis Manual:

Mouse Albert J. Klee,1990 **UNCSAM 1.1** P. H. M. Janssen,P. S. C. Heuberger,R. Sanders,1992 *Practical Handbook of Soil, Vadose Zone, and Ground-Water Contamination* J. Russell Boulding,Jon S. Ginn,2016-04-19 A synthesis of years of interdisciplinary research and practice the second edition of this bestseller continues to serve as a primary resource for information on the assessment remediation and control of contamination on and below the ground surface Practical Handbook of Soil Vadose Zone and Ground Water Contamination Assessment Prev **Solutions Manual for Uncertainty Modeling and Analysis in Engineering and the Sciences** Bilal M. Ayyub,George J. Klir,2006-01 *Calibration and uncertainty analysis of environmental models* J. Pinter,Rijksinstituut voor Integraal Zoetwaterbeheer en Afvalwaterbehandeling RIZA.,1990 *Experimentation and Uncertainty Analysis for Engineers* Hugh W. Coleman,W. Glenn Steele,1999 Now in the only manual available with direct applications to the design and analysis of engineering experiments respected authors Hugh Coleman and Glenn Steele have thoroughly updated their bestselling title to include the new methodologies being used by the United States and International standards committee groups The Industrial Electronics Handbook J. David Irwin,1997-05-09 From traditional topics that form the core of industrial electronics to new and emerging concepts and technologies The Industrial Electronics Handbook in a single volume has the field covered Nowhere else will you find so much information on so many major topics in the field For facts you need every day and for discussions on topics you have only dreamed of The Industrial Electronics Handbook is an ideal reference **Mechatronic Systems** Clarence W. de Silva,2007-10-17 Mechatronics has emerged as its own discipline over the past decade yet no reference has lived up to the demands of being a working guide for designing and implementing the new generation of mechatronic systems Uniting an international team of leading experts Mechatronic Systems Devices Design Control Operation and Monitoring rises to the ch

EPA Publications Bibliography Quarterly Abstract Bulletin United States. Environmental Protection Agency,1993

Uncertainty Analysis for Engineers and Scientists Faith A. Morrison,2021-01-07 Build the skills for determining appropriate error limits for quantities that matter with this essential toolkit Understand how to handle a complete project and how uncertainty enters into various steps Provides a systematic worksheet based process to determine error limits on measured quantities and all likely sources of uncertainty are explored measured or estimated Features instructions on how to carry out error analysis using Excel and MATLAB making previously tedious calculations easy Whether you are new to the sciences or an experienced engineer this useful resource provides a practical approach to performing error analysis Suitable as a text for a junior or senior level laboratory course in aerospace chemical and mechanical engineering and for professionals Superfund Exposure Assessment Manual Versar, Inc,1988 **Users Manual for the FORSS Sensitivity and Uncertainty Analysis Code System** ,1981 FORSS is a code system used to study relationships between nuclear reaction cross sections integral experiments reactor performance parameter predictions and associated uncertainties This

report describes the computing environment and the modules currently used to implement FORSS Sensitivity and Uncertainty Methodology *Groundwater Resources Modelling* M. G. Shepley, 2012 The UK is a country with over 150 years of widespread exploitation of its principal aquifers for public water supply Increasing demands greater awareness of environmental pressures and more exacting legislation has heightened the need for quantitative models to predict the impacts of groundwater use In the UK this has culminated in a unique national regulator led programme for England and Wales to develop conceptual and numerical models of the principal bedrock aquifers The outcomes of this programme will be of interest to the international hydrogeological community particularly as international legislation such as the European Water Framework Directive requires management of water issues across administrative boundaries with a varied cast of stakeholders The collection of papers provides a contrast between practitioner and research based approaches to assess and predict the anthropogenic impacts and environmental pressures **CRC Handbook of Nuclear Reactors Calculations**

Yigal Ronen, 1986 **Hydrosystems Engineering Uncertainty Analysis** Yeou-Koung Tung, Ben-Chie Yen, 2005-04-14 Failure of hydrosystems such as dams levees storm sewers or pollution control systems pose threats to the public safety and health as well as potentially inflict enormous damages on properties and environments Many failures of hydrosystems are mainly attributed by the existence of various uncertainties including inherent natural randomness and the lack of complete understanding of involved geophysical processes It is therefore essential to systematically quantify the degree of uncertainty for the problem in hand so that reliability assessment and risk based design of hydrosystems can be made The conventional approach of frequency analysis of heavy rainfalls or large floods consider only portion of the uncertainties involved in hydrosystem engineering problems Over the past two decades or so there has been a steady growth on the development and application of uncertainty analysis techniques in hydrosystems engineering and other disciplines The aim of this book is to bring together these uncertainty analysis techniques in one book and to demonstrate their applications and limitations for a wide variety of hydrosystem engineering problems *ASHRAE Handbook* , 1997 Fifth International Conference on Simulation Methods in Nuclear Engineering, September 8-11, 1996, Montreal, Canada , 1996 **Handbook of Perception:**

Perceptual Processing V. 9 Edward C. Carterette, 1978-11-28 Vol 9 *Computers in Education Journal* , 1997

Handbook of Cross-cultural Psychology Harry Charalambos Triandis, John Widdup Berry, 1980

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