

Section 3.1

Measurements and Their Uncertainty

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

Section 3 1 Measurements And Their Uncertainty

ML Yell



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 *Test bench design for power measurement of inverter-operated machines in the medium voltage range* Schneider, Simon Michael, 2018-12-21 This thesis gives an overview of test bench design for inverter operated Medium Voltage MV drives with the focus on the active power measurement The sources of measurement setup uncertainty are analysed and methods are shown to assess these uncertainties Further a possibility is shown to do quantitative uncertainty estimations which are verified with measurements through different measurement setups for MV drives operated with multilevel converters The influence of measurement transducers voltage dividers power meters and data acquisition boards are considered The digital signal processing is analysed and the possibilities to reduce its uncertainty contribution on an active power measurement is shown An analysis is made with the conventional measurement devices in the MV range The transfer behaviour of the devices and the characteristics of the uncertainty are investigated Measurements are done on typical medium voltage drives with an uncertainty analysis which shows the essential aspects of active power measurement The results show the significance of a measurement setup performance The investigations on the drives are used to indicate the impact on the determination of the drive efficiency and gives a significant input for further standardisation processes The handling of measurement uncertainties during active power measurement of drives is shown concerning the permanent topic of energy saving and its efficient use The work proposes a way of categorising electrical drives in energy efficiency classes and to make their determination comparable Die vorliegende Dissertation gibt einen Überblick über den Prüfstands Aufbau von umrichtergetriebenen Mittelspannungsantrieben Die Unsicherheitsquellen werden analysiert und Methoden werden aufgezeigt um die Messunsicherheit zu bewerten Des Weiteren werden die Machbarkeit von Unsicherheitsabschätzungen gezeigt welche mit Messungen an typischen Mittelspannungsantrieben mit Umrichterspeisung verglichen werden Der

Einfluss von Messwandlern Spannungsteilern Leistungsmessern und Messkarten zur Signalerfassung wird berücksichtigt Die digitale Signalverarbeitung wird analysiert um den Unsicherheitsbeitrag zur Wirkleistungsmessung zu reduzieren Es werden konventionellen Messwandler und teiler im Mittelspannungsbereich bezüglich ihres Übertragungsverhaltens sowie Messunsicherheiten untersucht Die Ergebnisse der Untersuchungen verdeutlichen die Signifikanz eines performanten Messaufbaus Des Weiteren werden Auswirkungen auf die Bestimmung der Effizienz aufgezeigt Die Arbeit liefert einen wesentlichen Beitrag für weitere Standardisierungsprozesse Der Umgang mit Messunsicherheiten der Wirkleistungsmessung wird betrachtet im Hinblick auf Energieeinsparpotenziale und deren effiziente Nutzung Die Arbeit schlägt eine Möglichkeit vor wie elektrische Antriebe in Energieeffizienzklassen kategorisiert werden können um diese vergleichbar zu machen

Springer Handbook of Atmospheric Measurements Thomas Foken, 2021-11-09 This practical handbook provides a clearly structured concise and comprehensive account of the huge variety of atmospheric and related measurements relevant to meteorologists and for the purpose of weather forecasting and climate research but also to the practitioner in the wider field of environmental physics and ecology The Springer Handbook of Atmospheric Measurements is divided into six parts The first part offers instructive descriptions of the basics of atmospheric measurements and the multitude of their influencing factors fundamentals of quality control and standardization as well as equations and tables of atmospheric water and soil quantities The subsequent parts present classical in situ measurements as well as remote sensing techniques from both ground based as well as airborne or satellite based methods The next part focusses on complex measurements and methods that integrate different techniques to establish more holistic data Brief discussions of measurements in soils and water at plants in urban and rural environments and for renewable energies demonstrate the potential of such applications The final part provides an overview of atmospheric and ecological networks Written by distinguished experts from academia and industry each of the 64 chapters provides in depth discussions of the available devices with their specifications aspects of quality control maintenance as well as their potential for the future A large number of thoroughly compiled tables of physical quantities sensors and system characteristics make this handbook a unique universal and useful reference for the practitioner and absolutely essential for researchers students and technicians

Chemical Analysis of Antibiotic Residues in Food Jian Wang, James D. MacNeil, Jack F. Kay, 2011-11-29 An insightful exploration of the key aspects concerning the chemical analysis of antibiotic residues in food The presence of excess residues from frequent antibiotic use in animals is not only illegal but can pose serious health risks by contaminating products for human consumption such as meat and milk Chemical Analysis of Antibiotic Residues in Food is a single source reference for readers interested in the development of analytical methods for analyzing antibiotic residues in food It covers themes that include quality assurance and quality control antibiotic chemical properties pharmacokinetics metabolism distribution food safety regulations and chemical analysis In addition the material presented includes background information valuable for understanding the choice

of marker residue and target animal tissue to use for regulatory analysis This comprehensive reference Includes topics on general issues related to screening and confirmatory methods Presents updated information on food safety regulation based on routine screening and confirmatory methods especially LC MS Provides general guidance for method development validation and estimation of measurement uncertainty Chemical Analysis of Antibiotic Residues in Food is written and organized with a balance between practical use and theory to provide laboratories with a solid and reliable reference on antibiotic residue analysis Thorough coverage elicits the latest scientific findings to assist the ongoing efforts toward refining analytical methods for producing safe foods of animal origin

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

Soil Physical Methods for Estimating Recharge - Part 3 W Bond,1998-03-01 Measurements in and just below the plant root zone using principles of soil physics can be used to estimate recharge This booklet describes the Zero Flux Plane Method Methods Based on Darcy's law and Lysimetry for making such estimates The work presents the basic concepts of soil water physics that will be referred to in this and other booklets in the series Another method the Soil Water Flux Meter is discussed briefly but as this is not

sufficiently well developed for routine use readers are referred elsewhere for full details All these methods require that consideration be given to interpolation over time and spatial extrapolation or averaging A brief discussion of this is given

NASA Technical Memorandum ,1989 *Optical Engineering* ,1993-04 Publishes papers reporting on research and development in optical science and engineering and the practical applications of known optical science engineering and technology **Proceedings of a Seminar on Initial Project Management Plans for Hydrologic Engineering and Economic Analysis** ,1992 Student Solutions to Accompany Taylor's An Introduction to Error Analysis, 3rd ed John R. Taylor,Maxine Singer,2024-04-08 This detailed Student Solutions Manual accompanies our internationally lauded text An Introduction to Error Analysis by John R Taylor which is newly released in its 3rd edition after sales of more than 120 000 print copies in its lifetime This detailed Student Solutions Manual accompanies our internationally lauded text An Introduction to Error Analysis by John R Taylor which is newly released in its 3rd edition after sales of more than 120 000 print copies in its lifetime One of the best ways for a student to develop a complete understanding of difficult concepts is by working through and solving problems This Student Solutions Manual accompanies John Taylor's Introduction to Error Analysis 3rd Edition restating the chapter ending problems and including detailed solutions with sometimes more than one solution per problem Some solutions include the use of spreadsheets and Python both of which are introduced in tutorials for readers who want to expand their skill sets Spin 2004 - Proceedings Of The 16th International Spin Physics Symposium And Workshop On Polarized Electron Sources And Polarimeters (With Cd-rom) Franco Bradamante,Andrea Bressan,Anna Martin,Kurt Aulenbacher,2005-08-02 This comprehensive volume covers the most recent advances in the field of spin physics including the latest research in high energy and nuclear physics and the study of nuclear spin structure The comprehensive coverage also includes polarized proton and electron acceleration and storage as well as polarized ion sources and targets Many significant new results and achievements on the different topics considered at the symposium are presented in this book for the first time **Search for New Heavy Charged Bosons and Measurement of High-Mass Drell-Yan Production in Proton-Proton Collisions** Markus Zinser,2018-09-25 This book presents two analyses the first of which involves the search for a new heavy charged gauge boson a so called W boson This new gauge boson is predicted by some theories extending the Standard Model gauge group to solve some of its conceptual problems Decays of the W boson in final states with a lepton l e and the corresponding anti neutrino are considered Data collected by the ATLAS experiment in 2015 at a center of mass energy of \sqrt{s} 13 TeV is used for the analysis In turn the second analysis presents a measurement of the double differential cross section of the process $pp \rightarrow Z \gamma X l l X$ including a $\gamma \gamma$ induced contribution at a center of mass energy of \sqrt{s} 8 TeV The measurement is performed in an invariant mass region of 116 GeV to 1500 GeV as a function of invariant mass and absolute rapidity of the $l l$ pair and as a function of invariant mass and pseudorapidity separation of the $l l$ pair The data analyzed was recorded by the ATLAS experiment in 2012 and corresponds to an integrated

luminosity of 20.3 fb It is expected that the measured cross sections are sensitive to the PDFs at very high values of the Bjorken x scaling variable and to the photon structure of the proton

An Introduction to Error Analysis John R.

Taylor, 2022-08-30 John R Taylor's best selling text will be released in a new third edition that features Bayesian statistics and updated new chapter ending problems throughout Previously translated into nine languages this brilliant little text introduces the study of uncertainties to lower division science students using familiar examples This remarkable text by John R Taylor has been a non stop best selling international hit since it was first published forty years ago However the two plus decades since the second edition was released have seen two dramatic developments the huge rise in popularity of Bayesian statistics and the continued increase in the power and availability of computers and calculators In response to the former Taylor has added a full chapter dedicated to Bayesian thinking introducing conditional probabilities and Bayes theorem The several examples presented in the new third edition are intentionally very simple designed to give readers a clear understanding of what Bayesian statistics is all about as their first step on a journey to become practicing Bayesians In response to the second development Taylor has added a number of chapter ending problems that will encourage readers to learn how to solve problems using computers While many of these can be solved using programs such as Matlab or Mathematica almost all of them are stated to apply to commonly available spreadsheet programs like Microsoft Excel These programs provide a convenient way to record and process data and to calculate quantities like standard deviations correlation coefficients and normal distributions they also have the wonderful ability if students construct their own spreadsheets and avoid the temptation to use built in functions to teach the meaning of these concepts

Microphysical Reality and Quantum Formalism Alwyn Van der Merwe, Franco Selleri, G. Tarozzi, 1988 **Dealing with Uncertainties**

Manfred Drosch, 2009-07-30 Dealing with Uncertainties is an innovative monograph that lays special emphasis on the deductive approach to uncertainties and on the shape of uncertainty distributions This perspective has the potential for dealing with the uncertainty of a single data point and with sets of data that have different weights It is shown that the inductive approach that is commonly used to estimate uncertainties is in fact not suitable for these two cases The approach that is used to understand the nature of uncertainties is novel in that it is completely decoupled from measurements Uncertainties which are the consequence of modern science provide a measure of confidence both in scientific data and in information in everyday life Uncorrelated uncertainties and correlated uncertainties are fully covered and the weakness of using statistical weights in regression analysis is discussed The text is abundantly illustrated with examples and includes more than 150 problems to help the reader master the subject

Transactions of the American Nuclear Society American Nuclear Society, 1990 **Student Solutions Manual to accompany Radiation Detection and Measurement, 4e** Glenn F. Knoll, 2012-03-20 Contains solutions to odd numbered problems from the textbook by Glenn Knoll Radiation Detection and Measurement 4th edition as well as solutions for additional Supplemental Problems developed by David Wehe

Chi-Squared Data Analysis and Model Testing for Beginners Carey Witkov, Keith Zengel, 2019 Recent groundbreaking discoveries in physics including the discovery of the Higgs Boson and gravitational waves have relied on chi squared analysis and model testing a data analysis method This is the first book to make chi squared model testing accessible to students in introductory physics lab courses and others who need to learn this method such as beginning researchers in astrophysics and particle physics beginners in data science and lab students in other experimental sciences For over a decade Harvard University's introductory physics lab sequence has made chi squared model testing its central theme Written by two faculty members the book is based on years of experience teaching students learn how to think like scientists by testing their models using chi squared analysis By including uncertainties in the curve fitting technique chi squared data analysis improves on the centuries old ordinary least squares and linear regression methods and combines best fit parameter estimation and model testing in one method A toolkit of essential statistical and experimental concepts is developed from the ground up with novel features to interest even those familiar with the material The presentation of one and two parameter chi squared model testing requiring only elementary probability and algebra is followed by case studies that apply the methods to simple introductory physics lab experiments More challenging topics requiring calculus are addressed in an advanced topic chapter This self contained and student friendly introduction includes a glossary end of chapter problems with complete solutions and software scripts available in several popular programming languages that the reader can use for chi squared model testing

Advances in Clinical Chemistry, 2018-02-22 Advances in Clinical Chemistry Volume 84 the latest installment in this internationally acclaimed series contains chapters authored by world renowned clinical laboratory scientists physicians and research scientists The serial discusses the latest and most up to date technologies related to the field of clinical chemistry It is the benchmark for novel analytical approaches in the clinical laboratory Provides the most up to date technologies in clinical chemistry and clinical laboratory science Authored by world renowned clinical laboratory scientists physicians and research scientists Presents the international benchmark for novel analytical approaches in the clinical laboratory

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