3 SCIENTIFIC MEASUREMENT

Practice Problems

In your notebook, solve the following problems.

SECTION 3.1 MEASUREMENTS AND THEIR UNCERTAINTY

Using different rulers, Bruce and Pete each measure the length of the same object three times.

1) Bruce's three measurements are 19 cm, 20 cm, and 22 cm. Calculate the average value of his measurements and express the answer with the correct number of significant figures.

$$\frac{19\,cm + 20\,cm + 22\,cm}{3} = 20\,cm$$

2. Pete's three measurements are 20.9 cm, 21.0 cm, and 21.0 cm. Calculate the average value of his measurements and express the answer with the correct number of significant figures.

$$\frac{20.9\,cm + 21.0\,cm + 21.0\,cm}{3} = 21.0\,cm$$

3. Multiply the answer to problem 1 by the answer to problem 2. Express the answer in scientific notation with the correct number of significant figures.

$$20\,cm \times 21.0\,cm = 400\,cm$$

4. Whose measurements are more precise?

Pete's

5. The actual length of the object is 20 cm. Whose measurements are more accurate?

Bruce's

6. What is the error of Pete's average measurement?

$$(21.0 - 20)\,cm = 1\,cm$$

7. What is the percent error of Pete's average measurement?

$$100 \times \frac{|21.0 - 20|\,cm}{20\,cm} = 5\%$$

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Samir Mekid

Section 3 Measurements And Their Uncertainty Practice Problems:

<u>System Identification</u> Rik Pintelon,Johan Schoukens,2012-04-04 System identification is a general term used to describe mathematical tools and algorithms that build dynamical models from measured data Used for prediction control physical interpretation and the designing of any electrical systems they are vital in the fields of electrical mechanical civil and chemical engineering Focusing mainly on frequency domain techniques System Identification A Frequency Domain Approach Second Edition also studies in detail the similarities and differences with the classical time domain approach It high lights many of the important steps in the identification process points out the possible pitfalls to the reader and illustrates the powerful tools that are available Readers of this Second Editon will benefit from MATLAB software support for identifying multivariable systems that is freely available at the website http booksupport wiley com State of the art system identification methods for both time and frequency domain data New chapters on non parametric and parametric transfer function modeling using non period excitations Numerous examples and figures that facilitate the learning process A simple writing style that allows the reader to learn more about the theo retical aspects of the proofs and algorithms Unlike other books in this field System Identification Second Edition is ideal for practicing engineers scientists researchers and both master s and PhD students in electrical mechanical civil and chemical engineering **Metrology and Instrumentation** Samir Mekid,2021-12-29 Metrology and Instrumentation Practical Applications for Engineering and Manufacturing provides students and professionals with an accessible foundation in the metrology techniques instruments and governing standards used in mechanical engineering and manufacturing The book opens with an overview of metrology units and scale then moves on to explain topics such as sources of error calibration systems uncertainty and dimensional mechanical and thermodynamic measurement systems A chapter on tolerance stack ups covers GD T ASME Y14 5 2018 and the ISO standard for general tolerances while a chapter on digital measurements connects metrology to newer Industry 4 0 applications

<u>Neutron Capture Therapy</u> Wolfgang A. G. Sauerwein,Andrea Wittig,Raymond L. Moss,Yoshinobu Nakagawa,Koji Ono,2025-05-30 This book now in a revised and updated second edition provides a comprehensive summary of recent progress in boron neutron capture therapy BNCT BNCT is based on the ability of the non radioactive isotope boron 10 to capture thermal neutrons with very high probability and to release instantaneously two heavy particles with a path length of one cell diameter or less This in principle allows for tumor cell selective high LET particle radiotherapy In the past BNCT depended solely on fission reactor based irradiation facilities but the appearance of accelerator based neutron sources placed in hospitals has opened a new chapter for BNCT This edition covers all the important aspects of BNCT including neutron sources boron chemistry drugs for BNCT boron analysis and imaging dosimetry and radiation biology The use of BNCT in a variety of malignancies and also some non malignant diseases is extensively discussed BNCT is clearly shown to be a promising modality at the threshold of wider clinical application All of the chapters are written by experienced specialists in

a language that will be readily understood by all participating disciplines   Surveying Measurements and Their Analysis R. B. Buckner,1983   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   **Basic Concepts of Chemistry** Leo J. Malone,Theodore Dolter,2008-12-03 Engineers who need to have a better understanding of chemistry will benefit from this accessible book It places a stronger emphasis on outcomes assessment which is the driving force for many of the new features Each section focuses on the development and assessment of one or two specific objectives Within each section a specific objective is included an anticipatory set to orient the reader content discussion from established authors and guided practice problems for relevant objectives These features are followed by a set of independent practice problems The expanded Making it Real feature showcases topics of current interest relating to the subject at hand such as chemical forensics and more medical related topics Numerous worked examples in the text now include Analysis and Synthesis sections which allow engineers to explore concepts in greater depth and discuss outside relevance   **Uncertainties in Dosimetry** ,2006   **Electrical Measurements in the Laboratory Practice** Rosario Bartiromo,Mario De Vincenzi,2016-04-09 This book covers the basic theory of electrical circuits describes analog and digital instrumentation and applies modern methods to evaluate uncertainties in electrical measurements It is comprehensive in scope and is designed specifically to meet the needs of students in physics and electrical engineering who are attending laboratory classes in electrical measurements The topics addressed in individual chapters include the analysis of continuous current circuits sources of measurement uncertainty and their combined effect direct current measurements analysis of

alternating current circuits special circuits including resonant circuits frequency filters and impedance matching networks alternating current measurements analog and digital oscilloscopes non sinusoidal waveforms and circuit excitation by pulses distributed parameter components and transmission lines Each chapter is equipped with a number of problems A special appendix describes a series of nine experiments in each case providing a plan of action for students and guidance for tutors to assist in the preparation and illustration of the experiment **Measurement Uncertainty in Chemical Analysis** Paul De Bièvre,Helmut Günzler,2013-06-29 It is now becoming recognized in the measurement community that it is as important to communicate the uncertainty related to a specific measurement as it is to report the measurement itself Without knowing the uncertainty it is impossible for the users of the result to know what confidence can be placed in it it is also impossible to assess the comparability of different measurements of the same parameter This volume collects 20 outstanding papers on the topic mostly published from 1999 2002 in the journal Accreditation and Quality Assurance They provide the rationale for why it is important to evaluate and report the uncertainty of a result in a consistent manner They also describe the concept of uncertainty the methodology for evaluating uncertainty and the advantages of using suitable reference materials Finally the benefits to both the analytical laboratory and the user of the results are considered *Advanced Mathematical And Computational Tools In Metrology And Testing Viii* Franco Pavese,Markus Baer,Alistair B Forbes,Jean-marc Linares,Christophe Perruchet,Nien Fan Zhang,2009-04-15 The main theme of the AMCTM 2008 conference reinforced by the establishment of IMEKO TC21 was to provide a central opportunity for the metrology and testing community worldwide to engage with applied mathematicians statisticians and software engineers working in the relevant fields This review volume consists of reviewed papers prepared on the basis of the oral and poster presentations of the Conference participants It covers all the general matters of advanced statistical modeling e g uncertainty evaluation experimental design optimization data analysis and applications multiple measurands correlation etc metrology software e g engineering aspects requirements or specification risk assessment software development software examination software tools for data analysis visualization experiment control best practice standards etc numerical methods e g numerical data analysis numerical simulations inverse problems uncertainty evaluation of numerical algorithms applications etc and data fusion techniques and design and analysis of inter laboratory comparisons Computed Tomography Per Christian Hansen,Jakob Jorgensen,William R. B. Lionheart,2021-09-25 This book describes fundamental computational methods for image reconstruction in computed tomography CT with a focus on a pedagogical presentation of these methods and their underlying concepts Insights into the advantages limitations and theoretical and computational aspects of the methods are included giving a balanced presentation that allows readers to understand and implement CT reconstruction algorithms Unique in its emphasis on the interplay between modeling computing and algorithm development Computed Tomography Algorithms Insight and Just Enough Theory develops the mathematical and computational aspects of three main classes of reconstruction methods classical filtered back

projection algebraic iterative methods and variational methods based on nonlinear numerical optimization algorithms It spotlights the link between CT and numerical methods which is rarely discussed in current literature and describes the effects of incomplete data using both microlocal analysis and singular value decomposition SVD This book sets the stage for further exploration of CT algorithms Readers will be able to grasp the underlying mathematical models to motivate and derive the basic principles of CT reconstruction and will gain basic understanding of fundamental computational challenges of CT such as the influence of noisy and incomplete data as well as the reconstruction capabilities and the convergence of the iterative algorithms Exercises using MATLAB are included allowing readers to experiment with the algorithms and making the book suitable for teaching and self study Computed Tomography Algorithms Insight and Just Enough Theory is primarily aimed at students researchers and practitioners interested in the computational aspects of X ray CT and is also relevant for anyone working with other forms of tomography such as neutron and electron tomography that share the same mathematical formulation With its basis in lecture notes developed for a PhD course it is appropriate as a textbook for courses on computational methods for X ray CT and computational methods for inverse problems **Measurement Science for Engineers** Paul Regtien,F. van der Heijden,M. J. Korsten,W Otthius,2004-06-01 This volume from an international authority on the subject deals with the physical and instrumentation aspects of measurement science the availability of major measurement tools and how to use them This book not only lays out basic concepts of electronic measurement systems but also provides numerous examples and exercises for the student Ideal for courses on instrumentation control engineering and physics Numerous worked examples and student exercises **Optical Engineering** ,2006 Publishes papers reporting on research and development in optical science and engineering and the practical applications of known optical science engineering and technology Statistical Methods for Detection and Quantification of Environmental Contamination Robert D. Gibbons,David E. Coleman,2001-07-13 Amstat News asked three review editors to rate their top five favorite books in the September 2003 issue Statistical Methods for Detection and Quantification of Environmental Contamination was among those chosen This groundbreaking volume describes the statistical theory that underlies the detection and quantification of environmental pollution both in the laboratory and in the field It presents the foundation of relating measured concentrations to true concentrations and the development of intervals of uncertainty for true concentrations and it presents a comprehensive review of the problem of estimating thresholds at which detection and quantification decisions can be made reliably The authors demonstrate the use of analytical measurements in making environmental impact decisions and in comparing environmental data to regulatory standards and naturally occurring background concentrations Taking the next step in a major evolution in the way environmental impact decisions are made Statistical Methods for Detection and Quantification of Environmental Contamination Presents statistical methods that allow the earliest possible detection and quantification of contaminants Describes procedures applicable to all environmental constituents Covers numerous state of

the art approaches Includes case studies demonstrating practical applications of these approaches An indispensable handbook for scientists and engineers involved in environmental monitoring programs this book is also an important resource for public health officials waste facility managers regulators statisticians and analytical chemists

ELECTROMAGNETIC COMPATIBILITY -WITHOUT EQUATIONS CHETAN KATHALAY,2019-04-18 This book deals with practical concepts of Electromagnetic Compatibility testing and design Given the scorching pace at which electronic gadgets are evolving deadlines associated with product design are shrinking rapidly In such a scenario the designer obviously has no time to read mathematical theory Keeping this fact in mind the book explains only the practical aspects of EMC design without resorting to equations or mathematical derivations whatsoever It has been designed in such a way that the designer can immediately incorporate EMC measures without worrying about the mathematics behind it The book starts with EMC fundamentals speaks about EMC standards and then goes on to explain various EMC test methodologies in detail In the subsequent chapters various design measures like filtering shielding grounding bonding PCB design and cable routing are discussed thoroughly These measures will enable manufacturers to design a compliant product at the design stage itself thereby saving time and money that would otherwise be required for costly retrofits once the design is frozen **Judging Science** Kenneth R. Foster,Peter W. Huber,1999 Attempting to reconcile the law s need for workable rules of evidence with the views of scientific validity and reliability What is scientific knowledge and when is it reliable These deceptively simple questions have been the source of endless controversy In 1993 the Supreme Court handed down a landmark ruling on the use of scientific evidence in federal courts Federal judges may admit expert scientific evidence only if it merits the label scientific knowledge The testimony must be scientifically reliable and valid This book is organized around the criteria set out in the 1993 ruling Following a general overview the authors look at issues of fit whether a plausible theory relates specific facts to the larger factual issues in contention philosophical concepts such as the falsifiability of scientific claims scientific error reliability in science particularly in fields such as epidemiology and toxicology the meaning of scientific validity peer review and the problem of boundary setting and the risks of confusion and prejudice when presenting science to a jury The book s conclusion attempts to reconcile the law s need for workable rules of evidence with the views of scientific validity and reliability that emerge from science and other disciplines **Validation in Chemical Measurement** Paul De Bièvre,Helmut Günzler,2005-01-12 The validation of analytical methods is based on the characterisation of a measurement procedure selectivity sensitivity repeatability reproducibility This volume collects 31 outstanding papers on the topic mostly published in the period 2000 2003 in the journal Accreditation and Quality Assurance They provide the latest understanding and possibly the rationale why it is important to integrate the concept of validation into the standard procedures of every analytical laboratory In addition this anthology considers the benefits to both the analytical laboratory and the user of the measurement results Traceability in Chemical Measurement Paul De Bièvre,Helmut Günzler,2005-12-06 Metrological

traceability of chemical measurement results means the establishment of a relation to metrological stated references through an unbroken chain of comparisons This volume collects 56 outstanding papers on the topic mostly published in the period 2000 2003 in the journal Accreditation and Quality Assurance They provide the latest understanding and possibly the rationale why it is important to integrate the concept of metrological traceability including suitable measurement standards such as certified reference materials into the standard measurement procedures of every analytical laboratory In addition this anthology considers the benefits to both the analytical laboratory and the user of the measurement results

Intermediate Accounting, Volume 1 Donald E. Kieso,Jerry J. Weygandt,Terry D. Warfield,Irene M. Wiecek,Bruce J. McConomy,2019-01-09 Intermediate Accounting 12th Edition Volume 1 continues to be the number one intermediate accounting resource in the Canadian market Viewed as the most reliable resource by accounting students faculty and professionals this course helps students understand prepare and use financial information by linking education with the real world accounting environment This new edition now incorporates new data analytics content and up to date coverage of leases and revenue recognition   Classifying Intelligence in Machines: A Taxonomy of Intelligent Control Callum Wilson,Francesco Marchetti,Marilena Di Carlo,Annalisa Riccardi,Edmondo Minisci , The quest to create machines that can solve problems as humans do leads us to intelligent control This field encompasses control systems that can adapt to changes and learn to improve their actions traits typically associated with human intelligence In this work we seek to determine how intelligent these classes of control systems are by quantifying their level of adaptability and learning First we describe the stages of development towards intelligent control and present a definition based on literature Based on the key elements of this definition we propose a novel taxonomy of intelligent control methods which assesses the extent to which they handle uncertainties in three areas the environment the controller and the goals This taxonomy is applicable to a variety of robotic and other autonomous systems which we demonstrate through several examples of intelligent control methods and their classifications Looking at the spread of classifications based on this taxonomy can help researchers identify where control systems can be made more intelligent

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