

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.

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

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.

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

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.

$$20 \text{ cm} \times 20.9 \text{ cm} = 418 \text{ cm}^2$$

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?

$$(21.0 - 20) \text{ cm} = 1 \text{ cm}$$

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

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

Section 3 Measurements And Their Uncertainty Practice Problems

C. R. Snyder, Shane J. Lopez, Jennifer Teramoto Pedrotti



Section 3 Measurements And Their Uncertainty Practice Problems:

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

System Identification 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 highlights 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 Edition 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 theoretical 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 stacks 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

Surveying Measurements and Their Analysis R. B. Buckner, 1983 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 **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 **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 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

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

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 **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

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

Handbook of Polymer Testing Roger Brown, 1999-01-21 The Handbook of Polymer Testing Physical Methods provides virtually currently used techniques for measuring and testing the physical properties of polymers A concise but detailed technical guide to the physical testing methods of synthetic polymers in plastics rubbers cellular materials textiles coated fabrics and composites the book analyses

Solved Problems in Geostatistics Oy Leuangthong, K. Daniel Khan, Clayton V. Deutsch, 2011-09-20 This unique book presents a learn by doing introduction to geostatistics Geostatistics provides the essential numerical tools for addressing research problems that are encountered in fields of study such as geology engineering and the earth sciences Illustrating key methods through both theoretical and practical exercises Solved Problems in Geostatistics is a valuable and well organized collection of worked out problems that allow the reader to master the statistical techniques for modeling data in the geological sciences The book's scope of coverage begins with the elements from statistics and probability that form the

foundation of most geostatistical methodologies such as declustering debiasing methods and Monte Carlo simulation Next the authors delve into three fundamental areas in conventional geostatistics covariance and variogram functions kriging and Gaussian simulation Finally special topics are introduced through problems involving utility theory loss functions and multiple point geostatistics Each topic is treated in the same clearly organized format First an objective presents the main concepts that will be established in the section Next the background and assumptions are outlined supplying the comprehensive foundation that is necessary to begin work on the problem A solution plan demonstrates the steps and considerations that have to be taken when working with the exercise and the solution allows the reader to check their work Finally a remarks section highlights the overarching principles and noteworthy aspects of the problem Additional exercises are available via a related Web site which also includes data related to the book problems and software programs that facilitate their resolution Enforcing a truly hands on approach to the topic Solved Problems in Geostatistics is an indispensable supplement for courses on geostatistics and spatial statistics at the upper undergraduate and graduate levels It also serves as an applied reference for practicing professionals in the geosciences

Compound-specific Stable Isotope Analysis Maik A Jochmann, Torsten C Schmidt, 2015-11-09 The use of Compound specific Stable Isotope Analysis CSIA is increasing in many areas of science and technology for source allocation authentication and characterization of transformation reactions Until now there have been no textbooks available for students with an analytical chemical background or basic introductory books emphasising the instrumentation and theory This book is the first to focus solely on stable isotope analysis of individual compounds in sometimes complex mixtures It acts as both a lecture companion for students and a consultant for advanced scientists in fields including forensic and environmental science The book starts with a brief history of the field before going on to explain stable isotopes from scratch The different ways to express isotope abundances are introduced together with isotope effects and isotopic fractionation A detailed account of the required technical equipment and general procedures for CSIA is provided This includes sections on derivatization and the use of microextraction techniques in GC IRMS The very important topic of referencing and calibration in CSIA is clearly described This differs from approaches used in quantitative analysis and is often difficult for the newcomer to comprehend Examples of successful applications of CSIA in food authenticity forensics archaeology doping control environmental science and extraterrestrial materials are included Applications in isotope data treatment and presentation are also discussed and emphasis is placed on the general conclusions that can be drawn from the uses of CSIA Further instrumental developments in the field are highlighted and selected experiments are introduced that may act as a basis for a short practical course at graduate level

Advanced Mathematical and Computational Tools in Metrology and Testing VIII Franco Pavese, 2009 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

Positive Psychology C. R. Snyder,Shane J. Lopez,Jennifer Teramoto Pedrotti,2011 Bringing both the science and the real life applications of positive psychology to life for students This revision of the cutting edge most comprehensive text for this exciting field presents new frameworks for understanding positive emotions and human strengths The authors all leading figures in the field show how to apply the science to improve schooling the workplace and cooperative lifestyles among people Well crafted exercises engage students in applying major principles in their own lives and more than 50 case histories and comments from leaders in the field vividly illustrate key concepts as they apply to real life **Positive Psychology**

Shane J. Lopez,Jennifer Teramoto Pedrotti,C. R. Snyder,2014-08-06 The fully updated Third Edition of Positive Psychology The Scientific and Practical Explorations of Human Strengths covers the science and application of positive psychology and presents new frameworks for understanding positive emotions and strengths through a culturally competent lens Authors Shane J Lopez Jennifer Teramoto Pedrotti and C R Snyder bring positive psychology to life by addressing important issues such as how positive psychology can improve schooling and the workplace as well as how it can promote flourishing in day to day life Throughout the book well crafted exercises allow readers to apply major principles to their own lives The book also explores various positive conditions within multiple cultural contexts such as happiness and well being and processes related to mindfulness wisdom courage and spirituality The emphasis is not exclusively clinical it includes applications and implications across a number of environments and draws from a number of perspectives including neurobiology This range makes it an excellent choice for anchoring major concepts so students can explore the application of positive psychology to their specific areas of interest Dr Pamela Rutledge Massachusetts School of Professional Psychology *Neutron Capture*

Therapy 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 **Neutron Standards and Applications** Charles D. Bowman,1977

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