

## 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 1 Measurements And Their Uncertainty

## Practice Problems

**R. B. Buckner**



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

*Measurements and Their Uncertainties* Ifan Hughes, Thomas Hase, 2010-07 This short guide to modern error analysis is primarily intended to be used in undergraduate laboratories in the physical sciences No prior knowledge of statistics is assumed The necessary concepts are introduced where needed and illustrated graphically The book emphasises the use of computers for error calculations and data fitting

*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

*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

**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

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

**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

**Measurement, Instrumentation, and Sensors Handbook, Second Edition** John G. Webster, Halit Eren, 2014-01-29 The Second Edition of the bestselling Measurement Instrumentation and Sensors Handbook brings together all aspects of the design and implementation of measurement instrumentation and sensors Reflecting the current state of the art it describes the use of instruments and techniques for performing practical measurements in engineering physics chemistry and the life sciences and discusses processing systems automatic data acquisition reduction and analysis operation characteristics accuracy errors calibrations and the incorporation of standards for control purposes Organized according to measurement problem the Spatial Mechanical Thermal and Radiation Measurement volume of the Second Edition Contains contributions from field experts new chapters and updates to all 96 existing chapters Covers instrumentation and measurement concepts spatial and mechanical variables displacement acoustics flow and spot velocity radiation wireless sensors and instrumentation and control and human factors A concise and useful reference for engineers scientists academic faculty students designers managers and industry professionals involved in instrumentation and measurement research and development Measurement Instrumentation and Sensors Handbook Second Edition Spatial Mechanical Thermal and Radiation Measurement provides readers with a greater understanding of advanced applications

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

**Uncertainties in Dosimetry**, 2006 **Measurement, Instrumentation, and Sensors Handbook** John G. Webster, Halit Eren, 2018-09-03 This new edition of the bestselling Measurement Instrumentation and Sensors Handbook brings together all aspects of the design and implementation of measurement instrumentation and sensors Reflecting the current state of the art it describes the use of instruments and techniques for performing practical measurements in engineering physics chemistry and the life sciences explains sensors and the associated hardware and software and discusses processing systems automatic data acquisition reduction and analysis operation characteristics accuracy errors calibrations and the incorporation of standards for control purposes Organized according to measurement problem the Second Edition Consists of 2 volumes Features contributions from 240 field experts Contains 53 new chapters plus updates to all 194

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**Artificial Intelligence Methods in the Environmental Sciences** Sue Ellen Haupt,Antonello Pasini,Caren Marzban,2008-11-28 How can environmental scientists and engineers use the increasing amount of available data to enhance our understanding of planet Earth its systems and processes This book describes various potential approaches based on artificial intelligence AI techniques including neural networks decision trees genetic algorithms and fuzzy logic Part I contains a series of tutorials describing the methods and the important considerations in applying them In Part II many practical examples illustrate the power of these techniques on actual environmental problems International experts bring to life ways to apply AI to problems in the environmental sciences While one culture entwines ideas with a thread another links them with a red line Thus a red thread ties the book together weaving a tapestry that pictures the natural data driven AI methods in the light of the more traditional modeling techniques and demonstrating the power of these data based methods

**NBS Special Publication** ,1968 *Autonomous Robot Vehicles* Ingemar J. Cox,Gordon T. Wilfong,2012-12-06 Autonomous robot vehicles are vehicles capable of intelligent motion and action without requiring either a guide or

teleoperator control The recent surge of interest in this subject will grow even grow further as their potential applications increase Autonomous vehicles are currently being studied for use as reconnaissance exploratory vehicles for planetary exploration undersea land and air environments remote repair and maintenance material handling systems for offices and factories and even intelligent wheelchairs for the disabled This reference is the first to deal directly with the unique and fundamental problems and recent progress associated with autonomous vehicles The editors have assembled and combined significant material from a multitude of sources and in effect now conveniently provide a coherent organization to a previously scattered and ill defined field

**Hydro-Environmental Analysis** James L. Martin, 2013-12-04 Focusing on fundamental principles Hydro Environmental Analysis Freshwater Environments presents in depth information about freshwater environments and how they are influenced by regulation It provides a holistic approach exploring the factors that impact water quality and quantity and the regulations policy and management methods that are necessary to maintain this vital resource It offers a historical viewpoint as well as an overview and foundation of the physical chemical and biological characteristics affecting the management of freshwater environments The book concentrates on broad and general concepts providing an interdisciplinary foundation The author covers the methods of measurement and classification chemical physical and biological characteristics indicators of ecological health and management and restoration He also considers common indicators of environmental health characteristics and operations of regulatory control structures applicable laws and regulations and restoration methods The text delves into rivers and streams in the first half and lakes and reservoirs in the second half Each section centers on the characteristics of those systems and methods of classification and then moves on to discuss the physical chemical and biological characteristics of each In the section on lakes and reservoirs it examines the characteristics and operations of regulatory structures and presents the methods commonly used to assess the environmental health or integrity of these water bodies It also introduces considerations for restoration and presents two unique aquatic environments wetlands and reservoir tailwaters Written from an engineering perspective the book is an ideal introduction to the aquatic and limnological sciences for students of environmental science as well as students of environmental engineering It also serves as a reference for engineers and scientists involved in the management regulation or restoration of freshwater environments

**The Chemical Analysis of Water** D. T. E. Hunt, Anthony Leslie Wilson, 1986 Information requirements of measurement programmes Sampling Basic problems and aims of sampling Time and frequency of sampling Overall design of sampling programmes Procedures for obtaining samples of waters Preparation transport storage and stability of samples The nature and importance of errors in analytical results Random error Systematic error Accuracy Effects of errors on decision making Need to estimate analytical errors Estimation and control of the Bias of analytical results Detailed consideration and assessment of individual sources of Bias Assessment of the overall Bias of analytical results Estimation and control of the precision of analytical results Model of Random errors Achievement of specified accuracy by a group of laboratories Types of

inter laboratory studies Reporting analytical results Reporting results close to the lower concentration limit of an analytical system The selection of analytical methods General precautions in water analysis laboratories Analytical techniques Automatic and on line analysis Computers in water analysis The scope for computing in water analysis and related activities

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



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