

3.1

MEASUREMENTS AND THEIR
UNCERTAINTY

Section Review

Objectives

- Understand measurement uncertainty concepts
- Recognize sources for primary, secondary, and tertiary measurements
- Identify the correct significant figures for a measurement and for the result of a calculation

Vocabulary

- | | | |
|-----------------------|---------------------|-----------------------|
| • measurement | • precision | • error |
| • significant figures | • significant value | • systematic error |
| • primary | • significant value | • significant figures |

Key Equations

- $\text{Correct significant value} = \text{uncert in value}$
- $\text{Correct value} = \frac{\text{error}}{\text{significant value}} \times 100\%$

Part A Completion

Use the completion portion to check your understanding of the concepts and topics discussed previously in this chapter. Each statement is completed with a word, short phrase, or number.

- | | |
|--|-----------|
| 1. The $\dots R \dots$ of a measurement describes how often the measurement consistently repeats. The $\dots R \dots$ of a measurement depends on the reproducibility. For $\dots R \dots$ is greater. | 11. _____ |
| 2. Measurements for $\dots R \dots$ is calculated by averaging the $\dots R \dots$ measurements. The value of the average is the $\dots R \dots$. | 12. _____ |
| 3. The $\dots R \dots$ of the average is the average value and the uncertainty for $\dots R \dots$. | 13. _____ |
| 4. The $\dots R \dots$ of the average is the average value and the uncertainty for $\dots R \dots$. | 14. _____ |
| 5. The $\dots R \dots$ of the average is the average value and the uncertainty for $\dots R \dots$. | 15. _____ |
| 6. The $\dots R \dots$ of the average is the average value and the uncertainty for $\dots R \dots$. | 16. _____ |
| 7. The $\dots R \dots$ of the average is the average value and the uncertainty for $\dots R \dots$. | 17. _____ |
| 8. The $\dots R \dots$ of the average is the average value and the uncertainty for $\dots R \dots$. | 18. _____ |
| 9. The $\dots R \dots$ of the average is the average value and the uncertainty for $\dots R \dots$. | 19. _____ |
| 10. The $\dots R \dots$ of the average is the average value and the uncertainty for $\dots R \dots$. | 20. _____ |

Section 3 1 Measurements And Their Uncertainty

Answer Key

**Per Christian Hansen, Jakob
Jorgensen, William R. B. Lionheart**

Section 3 1 Measurements And Their Uncertainty Answer Key:

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 *Journal of Research of the National Institute of Standards and Technology*, 1998 [Journal of Research of the National Bureau of Standards](#) United States. National Bureau of Standards, 1973

Uncertainty, Modeling, and Decision Making in Geotechnics Kok-Kwang Phoon, Takayuki Shuku, Jianye Ching, 2023-12-11 Uncertainty Modeling and Decision Making in Geotechnics shows how uncertainty quantification and numerical modeling can complement each other to enhance decision making in geotechnical practice filling a critical gap in guiding practitioners to address uncertainties directly The book helps practitioners acquire a working knowledge of geotechnical risk and reliability methods and guides them to use these methods wisely in conjunction with data and numerical modeling In particular it provides guidance on the selection of realistic statistics and a cost effective accessible method to address different design objectives and for different problem settings and illustrates the value of this to decision making using realistic examples Bringing together statistical characterization reliability analysis reliability based design probabilistic inverse analysis and physical insights drawn from case studies this reference guide from an international team of experts offers an excellent resource for state of the practice uncertainty informed geotechnical design for specialist practitioners and the research community **Optical Radiometry**

and Satellite Validation Agnieszka Bialek, David Doxaran, Vittorio Ernesto Brando, Clemence Goyens, Kevin Ruddick, Ana Ines Dogliotti, 2025-08-26 Strict quality control is essential to ensure that the satellite data products routinely used for environmental monitoring of water and land surfaces are fit for purpose A crucial step in this process is the validation of the water and land surface reflectances from which the final end user products are derived The topic of radiometric validation is growing rapidly in importance both because of the advent of operational satellite missions for routine environmental monitoring and because of the rapid expansion in the number of satellite missions including CubeSat constellations with limited cal val resources This enhanced need for radiometric validation data covering a wide VIS NIR SWIR range e g 380 2400nm preferably with a hyperspectral resolution must be met by new techniques and hardware particularly ground based automated radiometry *Quarterly Review - Federal Reserve Bank of Minneapolis* Federal Reserve Bank of

Minneapolis,1984 *The American Energy Initiative* United States. Congress. House. Committee on Energy and Commerce. Subcommittee on Energy and Power,2011 **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 **The American Energy Initiative, ... Serial No. 112-113, February 8, 2012, 112-2 Hearing, *** ,2013 Basic Physics Kenneth W Ford,2016-12-15 This reissued version of the classic text Basic Physics will help teachers at both the high school and college levels gain new insights into and deeper understanding of many topics in both classical and modern physics that are commonly taught in introductory physics courses All of the original book is included with new content added Short sections of the previous book 174 in number are labeled Features These Features are highlighted in the book set forth in a separate Table of Contents and separately indexed Many teachers will value this book as a personal reference during a teaching year as various topics are addressed Ford s discussions of the history and meaning of topics from Newton s mechanics to Feynman s diagrams although written first in 1968 have beautifully withstood the test of time and are fully relevant to 21st century physics teaching

Sleep and Sleep Disorders: Malcolm Lader,Daniel P. Cardinali,S. R. Pandi-Perumal,2009-11-06 Many recent discoveries in both laboratory and clinical settings have greatly increased our understanding of sleep medicine and the relevant

psychopharmacology This timely book serves to present updated information about the neuropsychopharmacology of sleep as this field enters mainstream psychiatry neurology and medicine This volume has assembled articles that summarize and review carefully a chosen selection of the latest discoveries concerning sleep medicine sleep physiology and sleep pharmacology Outstanding contributions have been sought from acknowledged experts in their respective fields The goal of the volume is to present the more recent developments and advances in the fields of sleep and neuropsychopharmacology as well as to provide a context for considering them both in depth and from multidisciplinary perspectives This volume brings together the collective expertise of clinicians and basic researchers who represent a range of interests in neuroscience neuropharmacology sleep physiology and biological rhythms Presenting a thoughtful balance of basic experimental and clinical facts and viewpoints this book will serve as a foundation for understanding and ultimately treating sleep disorders

Getting Started in Security Analysis Peter J. Klein, Brian R. Iammartino, 2009-12-02 An updated look at security analysis and how to use it during tough financial times Due to the current economic climate individual investors are starting to take much more time and effort to really understand their investments They've been investing on their own in record numbers but many have no idea how to handle the current financial crisis This accessible guide shows you how to take control of your investment decisions by mastering security analysis This fully updated Second Edition of *Getting Started in Security Analysis* covers everything you need to fully grasp the fundamentals of security analysis It focuses on the practical mechanics of such vital topics as fundamental analysis security valuation portfolio management real estate analysis and fixed income analysis Easy to follow instructions and case studies put the tools of this trade in perspective and show you how to incorporate them into your portfolio Along with dozens of examples you'll find special quiz sections that test your skills Focuses on key security analysis topics such as deciphering financial statements fixed income analysis fundamental analysis and security valuation If you want to make better investment decisions then look no further than the Second Edition of *Getting Started in Security Analysis*

Understanding Acoustics Steven L. Garrett, 2020-11-02 This open access textbook like Rayleigh's classic *Theory of Sound* focuses on experiments and on approximation techniques rather than mathematical rigor The second edition has benefited from comments and corrections provided by many acousticians in particular those who have used the first edition in undergraduate and graduate courses For example phasor notation has been added to clearly distinguish complex variables and there is a new section on radiation from an un baffled piston Drawing on over 40 years of teaching experience at UCLA the Naval Postgraduate School and Penn State the author presents a uniform methodology based on hydrodynamic fundamentals for analysis of lumped element systems and wave propagation that can accommodate dissipative mechanisms and geometrically complex media Five chapters on vibration and elastic waves highlight modern applications including viscoelasticity and resonance techniques for measurement of elastic moduli while introducing analytical techniques and approximation strategies that are revisited in nine subsequent chapters describing all aspects of generation transmission

scattering and reception of waves in fluids Problems integrate multiple concepts and several include experimental data to provide experience in choosing optimal strategies for extraction of experimental results and their uncertainties Fundamental physical principles that do not ordinarily appear in other acoustics textbooks like adiabatic invariance similitude the Kramers Kronig relations and the equipartition theorem are shown to provide independent tests of results obtained from numerical solutions commercial software and simulations Thanks to the Veneklasen Research Foundation this popular textbook is now open access making the e book available for free download worldwide Provides graduate level treatment of acoustics and vibration suitable for use in courses for self study and as a reference Highlights fundamental physical principles that can provide independent tests of the validity of numerical solutions commercial software and computer simulations Demonstrates approximation techniques that greatly simplify the mathematics without a substantial decrease in accuracy Incorporates a hydrodynamic approach to the acoustics of sound in fluids that provides a uniform methodology for analysis of lumped element systems and wave propagation Emphasizes actual applications as examples of topics explained in the text Includes realistic end of chapter problems some including experimental data as well as a Solutions Manual for instructors Features Talk Like an Acoustician boxes to highlight key terms introduced in the text

Making the Connection Marilyn Paula Carlson, Chris Rasmussen, 2008 The chapters in this volume convey insights from mathematics education research that have direct implications for anyone interested in improving teaching and learning in undergraduate mathematics This synthesis of research on learning and teaching mathematics provides relevant information for any math department or individual faculty member who is working to improve introductory proof courses the longitudinal coherence of precalculus through differential equations students mathematical thinking and problem solving abilities and students understanding of fundamental ideas such as variable and rate of change Other chapters include information about programs that have been successful in supporting students continued study of mathematics The authors provide many examples and ideas to help the reader infuse the knowledge from mathematics education research into mathematics teaching practice University mathematicians and community college faculty spend much of their time engaged in work to improve their teaching Frequently they are left to their own experiences and informal conversations with colleagues to develop new approaches to support student learning and their continuation in mathematics Over the past 30 years research in undergraduate mathematics education has produced knowledge about the development of mathematical understandings and models for supporting students mathematical learning Currently very little of this knowledge is affecting teaching practice We hope that this volume will open a meaningful dialogue between researchers and practitioners toward the goal of realizing improvements in undergraduate mathematics curriculum and instruction

Proceedings of the 2009 Academy of Marketing Science (AMS) Annual Conference Leroy Robinson, Jr., 2014-10-23 Founded in 1971 the Academy of Marketing Science is an international organization dedicated to promoting timely explorations of phenomena related to the science of marketing in theory research

and practice Among its services to members and the community at large the Academy offers conferences congresses and symposia that attract delegates from around the world Presentations from these events are published in this Proceedings series which offers a comprehensive archive of volumes reflecting the evolution of the field Volumes deliver cutting edge research and insights complimenting the Academy s flagship journals the Journal of the Academy of Marketing Science JAMS and AMS Review Volumes are edited by leading scholars and practitioners across a wide range of subject areas in marketing science This volume includes the full proceedings from the 2009 Academy of Marketing Science AMS Annual Conference held in Baltimore Maryland

Collected Papers. Volume VI Florentin Smarandache ,2022-01-15 This sixth volume of Collected Papers includes 74 papers comprising 974 pages on theoretic and applied neutrosophics written between 2015 2021 by the author alone or in collaboration with the following 121 co authors from 19 countries Mohamed Abdel Basset Abdel Nasser H Zaied Abdualлах Gamal Amir Abdullah Firoz Ahmad Nadeem Ahmad Ahmad Yusuf Adhami Ahmed Aboelfetouh Ahmed Mostafa Khalil Shariful Alam W Alharbi Ali Hassan Mumtaz Ali Amira S Ashour Asmaa Atef Assia Bakali Ayoub Bahnasse A A Azzam Willem K M Brauers Bui Cong Cuong Fausto Cavallaro Ahmet evik Robby I Chandra Kalaivani Chandran Victor Chang Chang Su Kim Jyotir Moy Chatterjee Victor Christianto Chunxin Bo Mihaela Colhon Shyamal Dalapati Arindam Dey Dunqian Cao Fahad Alsharari Faruk Karaaslan Aleksandra Fedajev Daniela G fu Hina Gulzar Haitham A El Ghareeb Masooma Raza Hashmi Hewayda El Ghawalby Hoang Viet Long Le Hoang Son F Nirmala Irudayam Branislav Ivanov S Jafari Jeong Gon Lee Milena Jevti Sudan Jha Junhui Kim Ilanthenral Kandasamy W B Vasanth Kandasamy Darjan Karaba evi Song I Karabatak Abdullah Karg n M Karthika Ieva Meidute Kavaliauskiene Madad Khan Majid Khan Manju Khari Kifayat Ullah K Kishore Kul Hur Santanu Kumar Patro Prem Kumar Singh Raghvendra Kumar Tapan Kumar Roy Malayalan Lathamaheswari Luu Quoc Dat T Madhumathi Tahir Mahmood Mladjan Maksimovic Gunasekaran Manogaran Nivetha Martin M Kasi Mayan Mai Mohamed Mohamed Talea Muhammad Akram Muhammad Gulistan Raja Muhammad Hashim Muhammad Riaz Muhammad Saeed Rana Muhammad Zulqarnain Nada A Nabeeh Deivanayagampillai Nagarajan Xenia Negrea Nguyen Xuan Thao Jagan M Obbineni Angelo de Oliveira M Parimala Gabrijela Popovic Ishaani Priyadarshini Yaser Saber Mehmet ahin Said Broumi A A Salama M Saleh Ganeshsree Selvachandran D n eng r Shio Gai Quek Songtao Shao Dragi a Stanujki Surapati Pramanik Swathi Sundari Sundaramoorthy Mirela Teodorescu Sel uk Topal Muhammed Turhan Alptekin Uluta Luige Vl d reanu Victor Vl d reanu tefan Vl du escu Dan Valeriu Voinea Volkan Duran Navneet Yadav Yanhui Guo Naveed Yaqoob Yongquan Zhou Young Bae Jun Xiaohong Zhang Xiao Long Xin Edmundas Kazimieras Zavadskas

Uncertainty quantification in nuclear physics Maria Piarulli, Evgeny Epelbaum, Christian Forssén, 2023-08-30

A Group Decision Making Framework Based on Neutrosophic TOPSIS Approach for Smart Medical Device Selection Mohamed Abdel-Basset, Gunasekaran Manogaran, Abdualлах Gamal, Florentin Smarandache, In this research the stress is placed upon the choosing of sugar analyzing smart medical devices for diabetics patients The main objective is to present the

complications of the problem raising interest among specialists in the healthcare industry and assessing smart medical devices under different evaluation criteria The problem is formulated as a multi criteria decision type with seven alternatives and seven criteria and then edited as a multi criteria decision model with seven alternatives and seven criteria **Scientific and Technical Aerospace Reports** ,1995-05 *Leveraging Technology for a Sustainable World* David A. Dornfeld,Barbara S. Linke,2012-04-23 The 19th CIRP Conference on Life Cycle Engineering continues a strong tradition of scientific meetings in the areas of sustainability and engineering within the community of the International Academy for Production Engineering CIRP The focus of the conference is to review and discuss the current developments technology improvements and future research directions that will allow engineers to help create green businesses and industries that are both socially responsible and economically successful The symposium covers a variety of relevant topics within life cycle engineering including Businesses and Organizations Case Studies End of Life Management Life Cycle Design Machine Tool Technologies for Sustainability Manufacturing Processes Manufacturing Systems Methods and Tools for Sustainability Social Sustainability and Supply Chain Management

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