

Fundamentals of Analytical Chemistry

Chapter 7 Statistical Data Treatment and Evaluation

Homework

- 4, 5, 7, 11, 15
 - Only starred (*) parts!
- We will only discuss the following sections from Chapter 7
 - D – Detection of Gross Errors
 - A – Confidence Intervals
 - B – Statistical Aids to Hypothesis Testing

Detection of Gross Errors

- Only 100% guaranteed method for rejecting a point because of gross error is if you KNOW that you made a mistake!
- Q-test
 - Assumption that gross error leads to an "outlier"
 - Largest or smallest point in a data set
 - Statistical test based on Gaussian distribution of data

Q – test

- $Q_{\text{calc}} = \frac{|x_o - x_n|}{w}$
 - x_o = outlier
 - Largest or smallest value
 - x_n = nearest value to outlier
 - w = range
 - Largest – smallest
 - Q_{tab} is then a value for comparison

Q – test

- Q – test is a *null hypothesis* test
 - Assume point is valid unless shown otherwise
- To do the Q – test we must compare Q_{calc} to Q_{tab}
 - Found in table of Q_{tab} values (Table 7-5)
 - Value depends on number of measurements AND the confidence level
- If $Q_{\text{calc}} > Q_{\text{tab}}$ then reject the outlier
 - Treat data as if the point never existed
 - Do not use for mean, standard deviation, or any other calculation for the data set!

Q – test

- Trends in Q_{tab}
 - As number of observations increases, Q_{tab} decreases
 - More measurements – more reliable the data for comparison
 - As confidence level increases, Q_{tab} increases
 - Interval must contain more points to insure that we do not reject a "good" point (one for which there was not a gross error)
 - Use extreme caution when rejecting data with the Q – test

Fundamentals Of Analytical Chemistry Cameron University

Peter Hughes, N.J. Mason



Fundamentals Of Analytical Chemistry Cameron University:

Biochemistry of Scandium and Yttrium, Part 1: Physical and Chemical Fundamentals Chaim T. Horovitz, 2012-12-06

Biochemistry of Scandium and Yttrium gathers together existing knowledge about scandium and yttrium from a wide variety of disciplines Part 1 will present a comparative study of the physical and chemical properties of scandium and yttrium looking at both their similarities and their differences Part 2 will address the biochemical aspects of these two elements and the various medical and environmental applications While these elements are relatively rare in nature these books will show that they have unusual physical and chemical properties and a disproportionate number of important applications Improved analytical techniques have revealed that scandium and yttrium are present throughout living matter even though only a relatively limited number of species have been analyzed so far This fact of course has far ranging implications for biological and environmental concerns Part 1 also contains a discussion of the interactions of scandium and yttrium with molecules of biological interest such as organic acids carbohydrates proteins nucleotides and other biologically active molecules The major impacts of scandium and yttrium in science technology and medicine will be of interest to a wide variety of researchers including geochemists inorganic and organic chemists clinical biochemists and those specializing in environmental protection Biochemistry of Scandium and Yttrium Part 1 and Part 2 will be especially welcome because the last book published on the biochemistry of scandium appeared over 20 years ago and the only book mentioning the biochemistry of yttrium came out in 1990

Engineering Properties of Foods, Fourth Edition M.A. Rao, Syed S.H. Rizvi, Ashim K. Datta, Jasim Ahmed, 2014-04-22

It has been nearly a decade since the third edition of Engineering Properties of Foods was published and food structure microstructure remains a subject of research interest In fact significant developments have taken place in the area of high pressure processing HPP which has been approved for pasteurization of food by the Food and Drug Administration Kinetic data related to HPP have proven important for validation of pressure assisted pasteurization Due to these developments three new chapters have been added to the Fourth Edition Food Microstructure Analysis Glass Transition in Foods Kinetics and Process Design for High Pressure Processing The text focuses on elucidating the engineering aspects of food properties and their variations supplemented by representative data Chapters have been updated and revised to include recent developments The book presents data on physical chemical and biological properties illustrating their relevance and practical importance The topics range from surface properties rheological properties and thermal properties to thermodynamic dielectric and gas exchange properties The chapters follow a consistent format for ease of use Each chapter contains an introduction food property definition measurement procedure modeling representative data compilation and applications

Engineering Properties of Foods M.A. Rao, Syed S.H. Rizvi, Ashim K. Datta, 2014-10-31 Ten years have passed since this reference's last edition making Engineering Properties of Foods Third Edition the must have resource for those interested in food properties and their variations Defined are food properties and the necessary theoretical background for each Also

evaluated is the usefulness of each property i Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1957 Includes Part 1 Number 1 2 Books and Pamphlets Including Serials and Contributions to Periodicals January December **Fundamentals of Tribology and Bridging the Gap Between the Macro- and Micro/Nanoscales** Bharat Bhushan, 2012-12-06 The word tribology was first reported in a landmark report by P Jost in 1966 Lubrication Tribology A Report on the Present Position and Industry's Needs Department of Education and Science HMSO London Tribology is the science and technology of two interacting surfaces in relative motion and of related subjects and practices The popular equivalent is friction wear and lubrication The economic impact of the better understanding of tribology of two interacting surfaces in relative motion is known to be immense Losses resulting from ignorance of tribology amount in the United States alone to about 6 percent of its GNP or about 200 billion dollars per year 1966 and approximately one third of the world's energy resources in present use appear as friction in one form or another A fundamental understanding of the tribology of the head medium interface in magnetic recording is crucial to the future growth of the 100 billion per year information storage industry In the emerging microelectromechanical systems MEMS industry tribology is also recognized as a limiting technology The advent of new scanning probe microscopy SPM techniques starting with the invention of the scanning tunneling microscope in 1981 to measure surface topography adhesion friction wear lubricant film thickness mechanical properties all on a micro to nanometer scale and to image lubricant molecules and the availability of supercomputers to conduct atomic scale simulations has led to the development of a new field referred to as Microtribology Nanotribology or Molecular Tribology see B Bhushan J N Israelachvili and U **The European Polysaccharide Network of Excellence (EPNOE)** Patrick Navard, 2012-12-13 This book provides an essential overview of the science of polysaccharides It both approaches polysaccharides as a polymer class and provides detailed descriptions of most major polysaccharides cellulose mannan xylan chitin chitosan cyclodextrins Owing to the multidisciplinary character of the European Polysaccharide Network of Excellence EPNOE the book describes all main aspects of polysaccharide science and technology biology enzymology physics chemistry materials science and processing Notations and concepts follow a uniform format throughout the whole work in order to create a valuable reference book on the field of polysaccharide science Owing to the major importance of industry in the EPNOE concrete applications are also described in detail **Humidity and Moisture: Fundamentals and standards. A. Wexler and W.A. Wildhack, editors** Arnold Wexler, 1965 *Fundamentals of Tribology* Ramsey Gohar, Homer Rahnejat, 2012-03-22 Fundamentals of Tribology deals with the fundamentals of lubrication friction and wear It begins by introducing the readers to the importance of tribology in everyday life and a brief history of the subject It then describes the nature of rough surfaces and mechanics of contacting elastic solids and their deformation under load and friction in their relative motion The book goes on to discuss the importance of lubricant rheology with respect to viscosity and density Then the principles of hydrodynamic lubrication are covered with derivations of the governing Reynolds

and energy equations Applications of hydrodynamic lubrication in various forms of bearings journal bearings thrust bearings and externally pressurized bearings are outlined The important and still evolving subject of elastohydrodynamic lubrication is treated in some detail both at its fundamentals as well as its applications in thin shell or overlay bearings cam followers and internal combustion engine pistons The fundamentals of biotribology are also covered particularly its applications to endo articular mammalian joints such as hip and knee joints and their arthroplasty In addition there is a treatment of the rapidly emerging knowledge of tribological phenomena in lightly loaded vanishing conjunctions nanotribology in natural systems and very small devices such as MEMS and high density data storage media This book targets the undergraduate and postgraduate body as well as engineering professionals in industry where often a quick solution or understanding of certain tribological phenomenon is sought The book can also form an initial basis for those interested in research into certain aspects of tribology **College Placement and Credit by Examination** College Entrance Examination Board,1978

Principles and Applications of Quantum Chemistry V.P. Gupta,2015-10-15 Principles and Applications of Quantum Chemistry offers clear and simple coverage based on the author s extensive teaching at advanced universities around the globe Where needed derivations are detailed in an easy to follow manner so that you will understand the physical and mathematical aspects of quantum chemistry and molecular electronic structure Building on this foundation this book then explores applications using illustrative examples to demonstrate the use of quantum chemical tools in research problems Each chapter also uses innovative problems and bibliographic references to guide you and throughout the book chapters cover important advances in the field including Density functional theory DFT and time dependent DFT TD DFT characterization of chemical reactions prediction of molecular geometry molecular electrostatic potential and quantum theory of atoms in molecules Simplified mathematical content and derivations for reader understanding Useful overview of advances in the field such as Density Functional Theory DFT and Time Dependent DFT TD DFT Accessible level for students and researchers interested in the use of quantum chemistry tools *Fundamentals of Soil Behavior* James K.

Mitchell,Kenichi Soga,Catherine O'Sullivan,2025-08-12 Authoritative and generously illustrated resource covering the many properties of soil and its behavior needed for addressing geotechnical and geoenvironmental engineering projects and problems The Fourth Edition of Fundamentals of Soil Behavior has been thoroughly updated to provide the latest information on the physical properties of soil and the fundamentals of its behavior with hundreds of tables and graphs illustrating correlations among composition classification state and static and dynamic properties Overall each topic is addressed in a micro to macro sequence considering behaviors at the atomic and or particle scales to develop understanding of soil properties and behaviors at the macro scale which is relevant to engineering practice This Fourth Edition includes two new chapters on special features of soil behavior and temperature dependent soil behavior Other chapters have been substantially updated to include the latest developments in imaging technology and analysis numerical simulations that have

advanced research on the complexities of soil behavior and recent experimental data The content has been reviewed consolidated and reorganized to more effectively communicate key information The text features end of chapter questions and problems to aid in seamless reader comprehension and information retention Updated by true thought leaders in the field the Fourth Edition of Fundamentals of Soil Behavior includes detailed information on Soil formation covering the earth's crust the geologic cycle rock and mineral stability weathering and origin of clay minerals and genesis Soil mineralogy covering atomic structure interatomic bonding secondary bonds crystal notation and clay mineral characteristics Fundamental engineering characterization of soil covering granular soils and clay minerals Observing and quantifying soil fabric covering qualitative and quantitative assessment of soil fabric Transport of heat fluid and electrical current The fundamentals of volume change deformation and strength properties of soils The impact of time and temperature changes on soil behavior Providing an understanding of soil behavior a fundamental requisite to a wide variety of engineering applications including foundation design and construction earthwork construction and geotechnical engineering Fundamentals of Soil Behavior is an essential learning resource for geotechnical and geoenvironmental engineers geologists geophysicists and students studying geotechnical engineering and granular materials

Books and Pamphlets, Including Serials and Contributions to Periodicals Library of Congress. Copyright Office, 1949 *Biomedical Photonics Handbook, 3 Volume Set* Tuan Vo-Dinh, 2014-07-29 This handbook presents the most recent technological advances and applications in the areas of biomedical photonics This second edition contains introductory material and covers the state of the art methods and instrumentation for biomedical photonic technologies It integrates interdisciplinary research and development critically needed for scientists engineers manufacturers teachers students and clinical providers to learn about the most recent advances and predicted trends in instrumentation and methods as well as clinical applications in important areas of biomedical photonics Extensive references are provided to enhance further study **Biomedical Photonics Handbook, Second Edition** Tuan Vo-Dinh, 2014-07-29 Shaped by Quantum Theory Technology and the Genomics Revolution The integration of photonics electronics biomaterials and nanotechnology holds great promise for the future of medicine This topic has recently experienced an explosive growth due to the noninvasive or minimally invasive nature and the cost effectiveness of photonic modalities in medical diagnostics and therapy The second edition of the Biomedical Photonics Handbook presents fundamental developments as well as important applications of biomedical photonics of interest to scientists engineers manufacturers teachers students and clinical providers The second volume Biomedical Diagnostics focuses on biomedical diagnostic technologies and their applications from the bench to the bedside Represents the Collective Work of over 150 Scientists Engineers and Clinicians Designed to display the most recent advances in instrumentation and methods as well as clinical applications in important areas of biomedical photonics to a broad audience this three volume handbook provides an inclusive forum that serves as an authoritative reference source for a broad audience involved in the

research teaching learning and practice of medical technologies What's New in This Edition A wide variety of photonic biochemical sensing technologies have already been developed for clinical monitoring of physiological parameters such as blood pressure blood chemistry pH temperature and the presence of pathological organisms or biochemical species of clinical importance Advanced photonic detection technologies integrating the latest knowledge of genomics proteomics and metabolomics allow sensing of early disease state biomarkers thus revolutionizing the medicine of the future Nanobiotechnology has opened new possibilities for detection of biomarkers of disease imaging single molecules and in situ diagnostics at the single cell level In addition to these state of the art advancements the second edition contains new topics and chapters including Fiber Optic Probe Design Laser and Optical Radiation Safety Photothermal Detection Multidimensional Fluorescence Imaging Surface Plasmon Resonance Imaging Molecular Contrast Optical Coherence Tomography Multiscale Photoacoustics Polarized Light for Medical Diagnostics Quantitative Diffuse Reflectance Imaging Interferometric Light Scattering Nonlinear Interferometric Vibrational Imaging Multimodality Theranostics Nanoplatfoms Nanoscintillator Based Therapy SERS Molecular Sentinel Nanoprobes Plasmonic Coupling Interference Nanoprobes Comprised of three books Volume I Fundamentals Devices and Techniques Volume II Biomedical Diagnostics and Volume III Therapeutics and Advanced Biophotonics this second edition contains eight sections and provides introductory material in each chapter It also includes an overview of the topic an extensive collection of spectroscopic data and lists of references for further reading

Introduction to Environmental Physics Peter Hughes, N.J. Mason, 2001-05-29 The changing climate and its affect on all of us is becoming increasingly apparent ozone depletion hurricanes floods and extreme weather behaviour Introduction to Environmental Physics challenges the way we think about how and why environmental change occurs This authoritative book aims to cover some of the more common and popular topics addressed in physics of the earth physics of the environment and environmental physics courses It provides an essentially non mathematical treatment suitable for a first year undergraduate level course The principle topics covered are the physics of the built environment the physics of human survival energy for living environmental health revealing the planet the sun and the atmosphere the biosphere the global climate and climate change With contributions from well respected experts on the subject this textbook contains a summary references and questions at the end of each chapter This is an ideal textbook for first year undergraduates in a variety of courses particularly physical geography physics environmental and earth science with worked examples illustrating principles and vignettes from scientists who have made a significant contribution to the field enlightening the student along the way As the authors say in the preface to this book At the outset of the 21st century there are many environmental challenges to be wrestled with and though the environment is changing the Physics is not

Chemometrics Muhammad A. Sharaf, Deborah L. Illman, Bruce R. Kowalski, 1986-03-28 Uses mathematical and statistical techniques to extract trends from chemical analysis Introduces scientists to powerful new tools that will allow them to obtain massive amounts of data from

computer controlled instrumentation and then extract the information they need Chapter sequence leads the reader through a sample analysis to resolution and pattern recognition First introductory text on the relatively new field **Barley** Steven E. Ullrich,2011-01-25 Barley is one of the world s most important crops with uses ranging from food and feed production malting and brewing to its use as a model organism in molecular research The demand and uses of barley continue to grow and there is a need for an up to date comprehensive reference that looks at all aspects of the barley crop from taxonomy and morphology through to end use Barley will fill this increasing void Barley will stand as a must have reference for anyone researching growing or utilizing this important crop Pretechnical Post High School Programs United States. Division of Vocational and Technical Education,1967 *The Health Officer* ,1936-11 Adsorption Technology in Water Treatment Eckhard Worch,2021-04-19 This book treats the theoretical fundamentals of adsorption technology for water treatment from a practical perspective It presents all the basics needed for experimental adsorption studies as well as for process modeling and adsorber design According to the increasing importance of micropollutants in the water cycle particular attention is paid to their competitive adsorption in the presence of background organic matter The current edition considers recent developments in adsorption theory and practice

Unveiling the Power of Verbal Beauty: An Psychological Sojourn through **Fundamentals Of Analytical Chemistry Cameron University**

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the balanced equation shown below if the reaction of 90.6 grams of CO produces 36.7 grams of C₃H₈ what is the percent yield
 $3\text{CO} + 7\text{H}_2 \rightarrow \text{C}_3\text{H}_8 + 3\text{H}_2\text{O}$

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 $8.3 \text{ mole H}_2\text{S} \times \frac{2 \text{ mole H}_2\text{O}}{2 \text{ mole H}_2\text{S}} = 8.3 \text{ mole H}_2\text{O}$
8.3 mole H₂S \times 18g H₂O / 1 mole H₂O = 149.4g H₂O is your theoretical yield so percent yield = $\frac{137.1\text{g H}_2\text{O}}{149.4\text{g H}_2\text{O}} \times 100 = 91.77\%$
problems 6 & 8 are similar to problem 5

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what is the limiting reagent if 8.52 g are actually formed what is the

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 $\text{C}_3\text{H}_6 + 3\text{O}_2 \rightarrow 3\text{CO} + 3\text{H}_2\text{O}$ if the reaction of 21.3 grams of O₂ produces a 47.3% yield how many grams of CO would be produced
step one figure out how many moles of the limiting reagent you have
 $\frac{21.3 \text{ grams O}_2}{32 \text{ grams/mole}} = 0.6656 \text{ moles O}_2$

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web percent yield is a measure of the efficiency of the experimental design
yield = $\frac{\text{mass of product obtained}}{\text{calculated mass of the product expected}} \times 100$
in this reaction a yield of 80% is anticipated

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web a write a balanced equation for the reaction
 $\text{Al} + \text{O}_2 \rightarrow \text{Al}_2\text{O}_3$
4 Al + 3 O₂ \rightarrow 2 Al₂O₃
b determine the theoretical yield of Al₂O₃
 $\frac{160.0 \text{ g Al}}{27 \text{ g/mol Al}} = 5.926 \text{ mol Al}$
 $\frac{101.964 \text{ g Al}_2\text{O}_3}{302.3 \text{ g/mol Al}_2\text{O}_3} = 0.337 \text{ mol Al}_2\text{O}_3$
c determine the percent yield
 $\frac{26.982 \text{ g Al}_2\text{O}_3}{101.964 \text{ g Al}_2\text{O}_3} \times 100 = 26.4\%$

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web 7 Na₂C₂O₄ is the limiting reactant percent yield = 86.6% only four molecules can be made 9 this amount cannot be weighted by ordinary balances and is worthless 10 nitrogen is the limiting reagent 11 yes methane is the limiting reagent 12 C is the limiting reagent 4 33 g of H₂ are left over 13

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