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KEY=CONCENTRATION - AMINA HATFIELD

BIOLOGY

A FUNCTIONAL APPROACH. STUDENTS' MANUAL

Nelson Thornes NO description available

CHEMISTRY 2E

AQA AS/A2 BIOLOGY STUDENT UNIT GUIDE NEW EDITION: UNITS 3 & 6 INVESTIGATIVE AND PRACTICAL SKILLS IN BIOLOGY

Philip Allan Written by Steve Potter and revised by a senior examiner, Martin Rowland, this AQA AS/A2 Biology Student Unit Guide is the essential study companion for Units 3 and 6: Investigative and Practical Skills in Biology. This full-colour book includes all you need to know to prepare for your Unit 3 and Unit 6 assessments: clear guidance on the range of practical apparatus and techniques that you need to know about and an overview of the scientific method of testing ideas by experimentation examiner's advice throughout, so you will know what to expect in the assessments and will be able to demonstrate the skills required sample investigation tasks for extra practice before your assessments

THE MATHEMATICS OF DIFFUSION

Oxford University Press Though it incorporates much new material, this new edition preserves the general character of the book in providing a collection of solutions of the equations of diffusion and describing how these solutions may be obtained.

DIETARY REFERENCE INTAKES FOR VITAMIN C, VITAMIN E, SELENIUM, AND CAROTENOIDS

National Academies Press This volume is the newest release in the authoritative series of quantitative estimates of nutrient intakes to be used for planning and assessing diets for healthy people. Dietary Reference Intakes (DRIs) is the newest framework for an expanded approach developed by U.S. and Canadian scientists. This book discusses in detail the role of vitamin C, vitamin E, selenium, and the carotenoids in human physiology and health. For each nutrient the committee presents what is known about how it functions in the human body, which factors may affect how it works, and how the nutrient may be related to chronic disease. Dietary Reference Intakes provides reference intakes, such as Recommended Dietary Allowances (RDAs), for use in planning nutritionally adequate diets for different groups based on age and gender, along with a new reference intake, the Tolerable Upper Intake Level (UL), designed to assist an individual in knowing how much is "too much" of a nutrient.

THE DISCOVERY OF INSULIN

University of Toronto Press The discovery of insulin at the University of Toronto in 1921-22 was one of the most dramatic events in the history of the treatment of disease. Insulin was a wonder-drug with ability to bring patients back from the very brink of death, and it was no surprise that in 1923 the Nobel Prize for Medicine was awarded to its discoverers, the Canadian research team of Banting, Best, Collip, and Macleod. In this engaging and award-winning account, historian Michael Bliss recounts the fascinating story behind the discovery of insulin - a story as much filled with fiery confrontation and intense competition as medical dedication and scientific genius. Originally published in 1982 and updated in 1996, The Discovery of Insulin has won the City of Toronto Book Award, the Jason Hannah

Medal of the Royal Society of Canada, and the William H. Welch Medal of the American Association for the History of Medicine.

SLEEP DISORDERS AND SLEEP DEPRIVATION

AN UNMET PUBLIC HEALTH PROBLEM

National Academies Press Clinical practice related to sleep problems and sleep disorders has been expanding rapidly in the last few years, but scientific research is not keeping pace. Sleep apnea, insomnia, and restless legs syndrome are three examples of very common disorders for which we have little biological information. This new book cuts across a variety of medical disciplines such as neurology, pulmonology, pediatrics, internal medicine, psychiatry, psychology, otolaryngology, and nursing, as well as other medical practices with an interest in the management of sleep pathology. This area of research is not limited to very young and old patients—sleep disorders reach across all ages and ethnicities. Sleep Disorders and Sleep Deprivation presents a structured analysis that explores the following: Improving awareness among the general public and health care professionals. Increasing investment in interdisciplinary somnology and sleep medicine research training and mentoring activities. Validating and developing new and existing technologies for diagnosis and treatment. This book will be of interest to those looking to learn more about the enormous public health burden of sleep disorders and sleep deprivation and the strikingly limited capacity of the health care enterprise to identify and treat the majority of individuals suffering from sleep problems.

INDUSTRIAL APPLICATIONS OF CARBON NANOTUBES

William Andrew Industrial Applications of Carbon Nanotubes covers the current applications of carbon nanotubes in various industry sectors, from the military to visual display products, and energy harvesting and storage. It also assesses the opportunities and challenges for increased commercialization and manufacturing of carbon nanotubes in the years ahead. Real-life case studies illustrate how carbon nanotubes are used in each industry sector covered, providing a valuable resource for scientists and engineers who are involved and/or interested in carbon nanotubes in both academia and industry. The book serves as a comprehensive guide to the varied uses of carbon nanotubes for specialists in many related fields, including chemistry, physics, biology, and textiles. Explains how carbon nanotubes can be used to improve the efficiency and performance of industrial products Includes real-life case studies to illustrate how carbon nanotubes have been successfully employed Explores how carbon nanotubes could be mass-manufactured in the future, and outlines the challenges that need to be overcome

NUTRIENT REQUIREMENTS OF LABORATORY ANIMALS,

FOURTH REVISED EDITION, 1995

National Academies Press In the years since the third edition of this indispensable reference was published, a great deal has been learned about the nutritional requirements of common laboratory species: rat, mouse, guinea pig, hamster, gerbil, and vole. The Fourth Revised Edition presents the current expert understanding of the lipid, carbohydrate, protein, mineral, vitamin, and other nutritional needs of these animals. The extensive use of tables provides easy access to a wealth of comprehensive data and resource information. The volume also provides an expanded background discussion of general dietary considerations. In addition to a more user-friendly organization, new features in this edition include: A significantly expanded section on dietary requirements for rats, reporting substantial new findings. A new section on nutrients that are not required but that may produce beneficial results. New information on growth and reproductive performance among the most commonly used strains of rats and mice and on several hamster species. An expanded discussion of diet formulation and preparation—including sample diets of both purified and natural ingredients. New information on mineral deficiency and toxicity, including warning signs. This authoritative resource will be important to researchers, laboratory technicians, and manufacturers of laboratory animal feed.

CONCEPTS OF BIOLOGY

Concepts of Biology is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the necessary knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do much better when they understand why biology is relevant to their everyday lives. For these reasons, Concepts of Biology is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand. We also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of Concepts of Biology is that instructors can customize the book, adapting it to the approach that works best in their classroom. Concepts of Biology also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand—and apply—key concepts.

BODY FLUID MANAGEMENT

FROM PHYSIOLOGY TO THERAPY

Springer Science & Business Media The administration of intravenous fluids is one of the most common and important therapeutic practices in the treatment of surgical, medical and critically ill patients. The international literature accordingly contains a vast number of works on fluid management, yet there is still confusion as to the best options in the various situations encountered in clinical practice. The purpose of this volume is to help the decision-making process by comparing different solution properties describing their indications, mechanisms of action and side-effects according to physiologic body water distribution, electrolytic and acid-base balance, and to clarify which products available on the market represent the best choice in different circumstances. The book opens by discussing in detail the concepts central to a sound understanding of abnormalities in fluid and electrolyte homeostasis and the effect of intravenous fluid administration. In the second part of the monograph, these concepts are used to explain the advantages and disadvantages of solutions available on the market in different clinical settings. Body Fluid Management: From Physiology to Therapy will serve as an invaluable decision-making guide, including for those who are not experts in the subject.

PUBLICATIONS

CUMULATED INDEX MEDICUS

ANIMAL MODELS OF DIABETES

METHODS AND PROTOCOLS

Humana This volume discusses a variety of animal models of diabetes, as well as describes techniques used to study end-points when using these models. The chapters in this book cover topics such as important considerations when working with mouse models of diabetes, highlighting factors that new investigators may not be aware of and some potential pitfalls in experimental outcomes; main characteristics of some commonly used animal models of diabetes research, ranging from mice to primates; animal models used to study specific aspects of beta-cell biology; and a focus on techniques used to assess blood glucose homeostasis, insulin action, and islet function in vivo and ex vivo. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Cutting-edge and comprehensive, Animal Models of Diabetes: Methods and Protocols is a valuable resource that will help diabetes researchers design and carry out in vivo studies that will best suit their experimental questions and needs.

GUIDELINE: SUGARS INTAKE FOR ADULTS AND CHILDREN

World Health Organization This guideline provides updated global, evidence-informed recommendations on the intake of free sugars to reduce the risk of NCDs in adults and children, with a particular focus on the prevention and control of unhealthy weight gain and dental caries. The recommendations in this guideline can be used by policy-makers and programme managers to assess current intake levels of free sugars in their countries relative to a benchmark. They can also be used to develop measures to decrease intake of free sugars, where necessary, through a range of public health interventions. Examples of such interventions and measures that are already being implemented by countries include food and nutrition labelling, consumer education, regulation of marketing of food and non-alcoholic beverages that are high in free sugars, and fiscal policies targeting foods and beverages that are high in free sugars. This guideline should be used in conjunction with other nutrient guidelines and dietary goals, in particular those related to fats and fatty acids (including saturated fatty acids and trans-fatty acids), to guide development of effective public health nutrition policies and programmes to promote a healthy diet.

PUBLICATIONS OF THE NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY ... CATALOG

BIBLIOGRAPHY OF AGRICULTURE

NUCLEAR SCIENCE ABSTRACTS

PUBLICATIONS OF THE NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY 1988 CATALOG

AEROSPACE MEDICINE AND BIOLOGY

A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports (STAR) and International aerospace abstracts (IAA).

LABORATORY BIOSAFETY MANUAL

THIRD EDITION

World Health Organization This is the third edition of this manual which contains updated practical guidance on biosafety techniques in laboratories at all levels. It is organised into nine sections and issues covered include: microbiological risk assessment; lab design and facilities; biosecurity concepts; safety equipment; contingency planning; disinfection and sterilisation; the transport of infectious substances; biosafety and the safe use of recombinant DNA technology; chemical, fire and electrical safety aspects; safety organisation and training programmes; and the safety checklist.

HANDBOOK OF OPTICAL SENSING OF GLUCOSE IN BIOLOGICAL FLUIDS AND TISSUES

CRC Press Although noninvasive, continuous monitoring of glucose concentration in blood and tissues is one of the most challenging areas in medicine, a wide range of optical techniques has recently been designed to help develop robust noninvasive methods for glucose sensing. For the first time in book form, the Handbook of Optical Sensing of Glucose in Biological Fluids and Tissues analyzes trends in noninvasive optical glucose sensing and discusses its impact on tissue optical properties. This handbook presents methods that improve the accuracy in glucose prediction based on infrared absorption spectroscopy, recent studies on the influence of acute hyperglycemia on cerebral blood flow, and the correlation between diabetes and the thermo-optical response of human skin. It examines skin glucose monitoring by near-infrared spectroscopy (NIR), fluorescence-based glucose biosensors, and a photonic crystal contact lens sensor. The contributors also explore problems of polarimetric glucose sensing in transparent and turbid tissues as well as offer a high-resolution optical technique for noninvasive, continuous, and accurate blood glucose monitoring and glucose diffusion measurement. Written by world-renowned experts in biomedical optics and biophotonics, this book gives a complete, state-of-the-art treatise on the design and applications of noninvasive optical methods and instruments for glucose sensing.

INDEX MEDICUS

THE ENGINEERING INDEX BIOENGINEERING AND BIOTECHNOLOGY ABSTRACTS

WHO LABORATORY MANUAL FOR THE EXAMINATION OF HUMAN SEMEN AND SPERM-CERVICAL MUCUS INTERACTION

Cambridge University Press The definitive and essential source of reference for all laboratories involved in the analysis of human semen.

CLINICAL PRACTICE GUIDELINES FOR CHRONIC KIDNEY DISEASE

BIOSENSORS

FUNDAMENTALS AND APPLICATIONS

Oxford University Press, USA The first comprehensive book to be published in this field. It has many contributors, chosen to reflect the spread of disciplines from which the new techniques have emerged.

PRECISION MEDICINE AND ARTIFICIAL INTELLIGENCE

THE PERFECT FIT FOR AUTOIMMUNITY

Elsevier Precision Medicine and Artificial Intelligence: The Perfect Fit for Autoimmunity covers background on AI, its link to PM, and examples of AI in healthcare, especially autoimmunity. The book

highlights future perspectives and potential directions as artificial intelligence (AI) has gained significant attention in the past decade. Autoimmune diseases are complex and heterogeneous conditions, but exciting new developments and implementation tactics surrounding automated systems has enabled the generation of large amounts of data, making autoimmunity an ideal target for AI in the field of Precision Medicine (PM). More and more diagnostic products utilize AI, which is also starting to be supported by regulatory agencies such as the Food and Drug Administration (FDA). Knowledge generation by leveraging large data sets including demographic, environmental, clinical and biomarker data has the potential to not only impact the diagnosis of patients, but also disease prediction, prognosis and treatment options. Allows the readers to get a good overview of the field of Precision Medicine for autoimmune diseases and Artificial Intelligence Provides background, milestone and examples of precision medicine for autoimmune disease and artificial intelligence Proves the paradigm shift towards precision medicine driven by value-based systems Discusses future applications of precision medicine research using artificial intelligence

A DICTIONARY OF APPLIED PHYSICS

IN VIVO GLUCOSE SENSING

John Wiley & Sons In Vivo Glucose Sensing is a key reference for scientists and engineers working on the development of glucose sensing technologies for the management of diabetes and other medical conditions. It discusses the analytical chemistry behind the strategies currently used for measuring glucose in vivo. It focuses on analyzing samples in the real world and discusses the biological complexities that make glucose sensing difficult. Covering current implantable devices, next-generation implantable sensing methods, and non-invasive methods for measuring glucose, this book concludes with an overview of possible applications other than diabetes.

A FIRST COURSE IN DESIGN AND ANALYSIS OF EXPERIMENTS

W. H. Freeman Oehlert's text is suitable for either a service course for non-statistics graduate students or for statistics majors. Unlike most texts for the one-term grad/upper level course on experimental design, Oehlert's new book offers a superb balance of both analysis and design, presenting three practical themes to students: • when to use various designs • how to analyze the results • how to recognize various design options Also, unlike other older texts, the book is fully oriented toward the use of statistical software in analyzing experiments.

GENERAL CHEMISTRY

PRINCIPLES AND MODERN APPLICATIONS

Prentice Hall

PRE-INCIDENT INDICATORS OF TERRORIST INCIDENTS

THE IDENTIFICATION OF BEHAVIORAL, GEOGRAPHIC AND TEMPORAL PATTERNS OF PREPARATORY CONDUCT

DIANE Publishing This is a print on demand edition of a hard to find publication. Explores whether sufficient data exists to examine the temporal and spatial relationships that existed in terrorist group planning, and if so, could patterns of preparatory conduct be identified? About one-half of the terrorists resided, planned, and prepared for terrorism relatively close to their eventual target. The terrorist groups existed for 1,205 days from the first planning meeting to the date of the actual/planned terrorist incident. The planning process for specific acts began 2-3 months prior to the terrorist incident. This study examined selected terrorist groups/incidents in the U.S. from 1980-2002. It provides for the potential to identify patterns of conduct that might lead to intervention prior to the commission of the actual terrorist incidents. Illustrations.

BLOOD GROUPS AND RED CELL ANTIGENS

FEEDBACK SYSTEMS

Princeton University Press The essential introduction to the principles and applications of feedback systems—now fully revised and expanded This textbook covers the mathematics needed to model, analyze, and design feedback systems. Now more user-friendly than ever, this revised and expanded edition of Feedback Systems is a one-volume resource for students and researchers in mathematics and engineering. It has applications across a range of disciplines that utilize feedback in physical, biological, information, and economic systems. Karl Åström and Richard Murray use techniques from

physics, computer science, and operations research to introduce control-oriented modeling. They begin with state space tools for analysis and design, including stability of solutions, Lyapunov functions, reachability, state feedback observability, and estimators. The matrix exponential plays a central role in the analysis of linear control systems, allowing a concise development of many of the key concepts for this class of models. Åström and Murray then develop and explain tools in the frequency domain, including transfer functions, Nyquist analysis, PID control, frequency domain design, and robustness. Features a new chapter on design principles and tools, illustrating the types of problems that can be solved using feedback Includes a new chapter on fundamental limits and new material on the Routh-Hurwitz criterion and root locus plots Provides exercises at the end of every chapter Comes with an electronic solutions manual An ideal textbook for undergraduate and graduate students Indispensable for researchers seeking a self-contained resource on control theory

WATER RESEARCH

TRENDS IN BIOELECTROANALYSIS

Springer This volume offers a careful selection of trend-setting topics in the field. In-depth review articles illustrate current trends in the field. Experienced experts present a comprehensive overview concerning the electrochemical biosensing of glucose for diabetes care from an industrial research and development perspective a survey of bioassay applications for individually addressable electrochemical arrays, focusing on liquid-phase bioanalytical assays a review of recent advances in the development of electronic tongues based on the use of biosensor arrays coupled with advanced chemometric data analysis novel strategies of DNA biosensor development and corresponding applications for studies of DNA damage a survey of recent trends in the electrochemistry of redox proteins, including the increasing diversity of redox proteins used in electrochemical studies, novel immobilization strategies, and biosensor / biofuel cell applications an overview of electrochemical sensing of blood gases with advanced sensor concepts a survey of recent bioelectroanalytical studies with high spatial resolution using scanning electrochemical microscopy with a wide range of applications covering imaging of living cells, studies of metabolic activity, imaging of local enzyme activity, and studies of transport through bilayers This timely collection will be of interest not only for experts in the field, but also to students and their teachers in disciplines that include analytical chemistry, biology, electrochemistry, and various interdisciplinary research areas.

NUTRIENT REQUIREMENTS OF POULTRY

NINTH REVISED EDITION, 1994

National Academies Press This classic reference for poultry nutrition has been updated for the first time since 1984. The chapter on general considerations concerning individual nutrients and water has been greatly expanded and includes, for the first time, equations for predicting the energy value of individual feed ingredients from their proximate composition. This volume includes the latest information on the nutrient requirements of meat- and egg-type chickens, incorporating data on brown-egg strains, turkeys, geese, ducks, pheasants, Japanese quail, and Bobwhite quail. This publication also contains new appendix tables that document in detail the scientific information used to derive the nutrient requirements appearing in the summary tables for each species of bird.

APPLIED AND ENVIRONMENTAL MICROBIOLOGY

POPULATION HEALTH: BEHAVIORAL AND SOCIAL SCIENCE INSIGHTS

Government Printing Office The purpose of this book is to gain a better understanding of the multitude of factors that determine longer life and improved quality of life in the years a person is alive. While the emphasis is primarily on the social and behavioral determinants that have an effect on the health and well-being of individuals, this publication also addresses quality of life factors and determinants more broadly. Each chapter in this book considers an area of investigation and ends with suggestions for future research and implications of current research for policy and practice. The introductory chapter summarizes the state of Americans' health and well-being in comparison to our international peers and presents background information concerning the limitations of current approaches to improving health and well-being. Following the introduction, there are 21 chapters that examine the effects of various behavioral risk factors on population health, identify trends in life expectancy and quality of life, and suggest avenues for research in the behavioral and social science arenas to address problems affecting the U.S. population and populations in other developed and developing countries around the world. Undergraduate and graduate students pursuing coursework in health statistics, health population demographics, behavioral and social science, and health policy may be interested in this content. Additionally, policymakers, legislators, health educators, and scientific organizations around the world may also have an interest in this resource.