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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.

CLINICAL TEXT MINING

SECONDARY USE OF ELECTRONIC PATIENT RECORDS

Springer This open access book describes the results of natural language processing and machine learning methods applied to clinical text from electronic patient records. It is divided into twelve chapters. Chapters 1-4 discuss the history and background of the original paper-based patient records, their purpose, and how they are written and structured. These initial chapters do not require any technical or medical background knowledge. The remaining eight chapters are more technical in nature and describe various medical classifications and terminologies such as ICD diagnosis codes, SNOMED CT, MeSH, UMLS, and ATC. Chapters 5-10 cover basic tools

for natural language processing and information retrieval, and how to apply them to clinical text. The difference between rule-based and machine learning-based methods, as well as between supervised and unsupervised machine learning methods, are also explained. Next, ethical concerns regarding the use of sensitive patient records for research purposes are discussed, including methods for de-identifying electronic patient records and safely storing patient records. The book's closing chapters present a number of applications in clinical text mining and summarise the lessons learned from the previous chapters. The book provides a comprehensive overview of technical issues arising in clinical text mining, and offers a valuable guide for advanced students in health informatics, computational linguistics, and information retrieval, and for researchers entering these fields.

UNIVERSITY PHYSICS

University Physics is designed for the two- or three-semester calculus-based physics course. The text has been developed to meet the scope and sequence of most university physics courses and provides a foundation for a career in mathematics, science, or engineering. The book provides an important opportunity for students to learn the core concepts of physics and understand how those concepts apply to their lives and to the world around them. Due to the comprehensive nature of the material, we are offering the book in three volumes for flexibility and efficiency.

Coverage and Scope Our *University Physics* textbook adheres to the scope and sequence of most two- and three-semester physics courses nationwide. We have worked to make physics interesting and accessible to students while maintaining the mathematical rigor inherent in the subject. With this objective in mind, the content of this textbook has been developed and arranged to provide a logical progression from fundamental to more advanced concepts, building upon what students have already learned and emphasizing connections between topics and between theory and applications. The goal of each section is to enable students not just to recognize concepts, but to work with them in ways that will be useful in later courses and future careers. The organization and pedagogical features were developed and vetted with feedback from science educators dedicated to the project.

VOLUME I Unit 1: Mechanics Chapter 1: Units and Measurement Chapter 2: Vectors Chapter 3: Motion Along a Straight Line Chapter 4: Motion in Two and Three Dimensions Chapter 5: Newton's Laws of Motion Chapter 6: Applications of Newton's Laws Chapter 7: Work and Kinetic Energy Chapter 8: Potential Energy and Conservation of Energy Chapter 9: Linear Momentum and Collisions Chapter 10: Fixed-Axis Rotation Chapter 11: Angular Momentum Chapter 12: Static Equilibrium and Elasticity Chapter 13: Gravitation Chapter 14: Fluid Mechanics Unit 2: Waves and Acoustics Chapter 15: Oscillations Chapter 16: Waves Chapter 17: Sound

SEXUAL ASSAULT NURSE EXAMINER, SANE

DEVELOPMENT & OPERATION GUIDE

FRESHWATER MICROPLASTICS

EMERGING ENVIRONMENTAL CONTAMINANTS?

Springer This book is open access under a CC BY 4.0 license. This volume focuses on microscopic plastic debris, also referred to as microplastics, which have been detected in aquatic environments around the globe and have accordingly raised serious concerns. The book explores whether microplastics represent emerging contaminants in freshwater systems, an area that remains underrepresented to date. Given the complexity of the issue, the book covers the current state-of-research on microplastics in rivers and lakes, including analytical aspects, environmental concentrations and sources, modelling approaches, interactions with biota, and ecological implications. To provide a broader perspective, the book also discusses lessons learned from nanomaterials and the implications of plastic debris for regulation, politics, economy, and society. In a research field that is rapidly evolving, it offers a solid overview for environmental chemists, engineers, and toxicologists, as well as water managers and policy-makers.

ENGINEERING STATISTICS, 5TH EDITION

Wiley Global Education Montgomery, Runger, and Hubele provide modern coverage of engineering statistics, focusing on how statistical tools are integrated into the engineering problem-solving process. All major aspects of engineering statistics are covered, including descriptive statistics, probability and probability distributions, statistical test and confidence intervals for one and two samples, building regression models, designing and analyzing engineering experiments, and statistical process control. Developed with sponsorship from the National Science Foundation, this revision incorporates many insights from the authors teaching experience along with feedback from numerous adopters of previous editions.

FUNDAMENTALS OF MECHANICS

UNIVERSITY PHYSICS

Createspace Independent Publishing Platform *Fundamentals of Mechanics* is Volume 1 of six-volume Calculus-based University Physics series, designed to meet the requirements of a two-semester course sequence of introductory physics for physics, chemistry, and engineering majors. The present volume focuses on building a good foundation in kinematics and dynamics. The emphasis is placed on understanding basic concepts of kinematics and equilibrium conditions of forces well before handling more difficult subject of dynamics. Concepts and ideas are developed starting from fundamental principles whenever possible and illustrated by numerical and symbolic problems. Detailed guided exercises and challenging problems help students develop their problem solving skills. The complete University Physics series (Volumes 1-6) covers topics in Mechanics, Gravitation, Waves, Sound, Fluids, Thermodynamics, Electricity, Magnetism, Optics, and Modern Physics. Appropriate volumes can be selected to provide students a solid foundation of introductory physics and make their transition into advanced courses easier. Volume 1: *Fundamentals of Mechanics - Vectors, Kinematics, Newton's Laws of Motion, Impulse, Energy, Rotation, Physics in Non-inertial Frames*. Volume 2: *Applications of*

Mechanics - Newton's Law of Gravitation, Simple Harmonic Motion, Mechanical Waves, Sound, Stress and Strain in Materials, Fluid Pressure, Fluid Dynamics. Volume 3: Thermodynamics - Heat, Temperature, Specific Heat, Thermal Expansion, Ideal Gas Law, First Law of Thermodynamics, Work by Gas, Second Law of Thermodynamics, Heat Engine, Carnot Cycle, Entropy, Kinetic Theory, Maxwell's Velocity Distribution. Volume 4: Electricity and Magnetism - Static Electricity, Coulomb's Law, Electric Field, Gauss's Law, Electric Potential, Metals and Dielectrics, Magnets, Magnetic Force, Steady Current, Magnetic Field, Ampere's Law, Kirchhoff's Rules, Electrodynamics, Faraday's Law, Maxwell's Equations, AC Circuits. Volume 5: Optics - Law of Reflection, Snell's Law of Refraction, Optical Elements, Optical Instruments, Wave Optics, Interference, Young's Double Slit, Michelson Interferometer, Fabry-Perot Interferometer, Huygens-Fresnel Principle, Diffraction. Volume 6: Modern Physics - Relativity, Quantum Mechanics, Material Science, Nuclear Physics, Fundamental Particles, Gravity, and Cosmology.

REAL ESTATE RECORD AND BUILDERS' GUIDE

AIAA GUIDE FOR THE VERIFICATION AND VALIDATION OF COMPUTATIONAL FLUID DYNAMICS SIMULATIONS

Amer Inst of Aeronautics & This document presents for guidelines for assessing the credibility of modeling and simulation in computational fluid dynamics. The two main principles that are necessary for assessing credibility are verification and validation. Verification is the process of determining if a computational simulation accurately represents the conceptual model, but no claim is made of the relationship of the simulation to the real world. Validation is the process of determining if a computational simulation represents the real world. This document defines a number of key terms, discusses fundamental concepts, and specifies general procedures for conducting verification and validation of computational fluid dynamics simulations. The document's goal is to provide a foundation for the major issues and concepts in verification and validation. However, this document does not recommend standards in these areas because a number of important issues are not yet resolved. It is hoped that the guidelines will aid in the research, development, and use of computational fluid dynamics simulations by establishing common terminology and methodology for verification and validation. The terminology and methodology should also be useful in other engineering and science disciplines.

AIAA SIXTH INTERNATIONAL AEROSPACE PLANES AND HYPERSONICS TECHNOLOGIES CONFERENCE: 95-6100-95-6162

THE FOOD SAFETY INFORMATION HANDBOOK

Greenwood Publishing Group Outbreaks of E. Coli and Salmonella from eating tainted meat or chicken and Mad Cow Disease have consumers and the media focused on food safety-related topics. This handbook aimed at students as well as consumers is an excellent starting point for locating both print and electronic resources with timely information about food safety issues, organizations and associations, and careers in the field.

FRAGMENTATION IN SEMI-ARID AND ARID LANDSCAPES

CONSEQUENCES FOR HUMAN AND NATURAL SYSTEMS

[Springer Science & Business Media](#) *With detailed data from nine sites around the world, the authors examine how the so-called 'fragmentation' of these fragile landscapes occurs and the consequences of this break-up for ecosystems and the people who depend on them. 'Rangelands' make up a quarter of the world's landscape, and here, the case is developed that while fragmentation arises from different natural, social and economic conditions worldwide, it creates similar outcomes for human and natural systems.*

HAWKINS ELECTRICAL GUIDE ...: ALTERNATING CURRENTS AND ALTERNATORS

MATERIALS, DESIGN, AND MANUFACTURING FOR SUSTAINABLE ENVIRONMENT

SELECT PROCEEDINGS OF ICMDMSE 2020

[Springer Nature](#) *This book comprises the select proceedings of the International Conference on Materials, Design and Manufacturing for Sustainable Environment (ICMDMSE 2020). The primary focus is on emerging materials and cutting-edge manufacturing technologies for sustainable environment. The book covers a wide range of topics such as advanced materials, vibration, tribology, finite element method (FEM), heat transfer, fluid mechanics, energy engineering, additive manufacturing, robotics and automation, automobile engineering, industry 4.0, MEMS and nanotechnology, optimization techniques, condition monitoring, and new paradigms in technology management. Contents of this book will be useful to students, researchers, and practitioners alike.*

INTERNATIONAL ELECTRONICS DIRECTORY '90

THE GUIDE TO EUROPEAN MANUFACTURERS, AGENTS AND APPLICATIONS

[Elsevier](#) *International Electronics Directory '90: The Guide to European Manufacturers, Agents and Applications, Part 2 focuses on information on manufacturers, agents, and applications. The book first presents a list of companies and abbreviations. The text then underscores a classified list of products and services. This includes electronics for office administration, aerospace industry, security and alarm systems, automobile industry, and banking; computers and ancillary equipment; consumer electronics; and electronics for environmental monitoring. Other products and services mentioned include electronics for textile machines, oceanology, metalworking industry, and packaging machines. The selection also provides an alphabetical list of products. This includes accelerometers, access control systems, backplanes, bank note counters, document scanners, drying equipment, flight data recorders, machine vision systems, magnetic tape and*

cassette recorders, and underwater navigational equipment. The text is a valuable source of information for readers wanting to know about manufacturers, agents, and applications.

GUIDELINES FOR LOCAL SURVEYS

A BASIS FOR PRESERVATION PLANNING

BOND'S FRANCHISE GUIDE 2002

Bond's Franchise Guide offers the prospective franchisee detailed profiles of over 1,000 franchises, as well as listings of franchise attorneys, consultants and service providers. The companies are divided into 45 distinct business categories for easy comparison. The data represents the most up-to-date, comprehensive and reliable information about this dynamic industry. The profiles are the result of an exhaustive 40-point questionnaire that details: Background - number of operating units, geographic distribution and detailed description of the business. Capital requirements - initial cash investment and total investment, on-going royalty and advertising fees, staffing levels, space needs, etc. Initial training and start-up assistance provided, as well as on-going services. Franchisee evaluation criteria. Specific areas of geographic expansion - U.S., Canada and International. And much more... Book jacket.

OFFICIAL SUMMARY OF SECURITY TRANSACTIONS AND HOLDINGS REPORTED TO THE SECURITIES AND EXCHANGE COMMISSION UNDER THE SECURITIES EXCHANGE ACT OF 1934 AND THE PUBLIC UTILITY HOLDING COMPANY ACT OF 1935

AMERICAN AGRICULTURIST

THE AMERICAN AGRICULTURIST

CLEANING PAKISTAN'S AIR

POLICY OPTIONS TO ADDRESS THE COST OF OUTDOOR AIR POLLUTION

World Bank Publications *The harm to Pakistanis' health, economy, and environment from urban air pollution is among the highest in South Asia, exceeding several high-profile causes of mortality and morbidity in Pakistan. This report details a broad spectrum of research on Pakistan's air quality management challenges and presents concrete steps to achieve improvements.*

REGIONAL INDUSTRIAL BUYING GUIDE

GREATER MICHIGAN

DIETARY SUPPLEMENTS

MDPI *This book is a printed edition of the Special Issue "Dietary Supplements" that*

was published in *Nutrients*

THE ALABAMA LIBRARIAN

WILLING'S PRESS GUIDE

INVISIBLE WOUNDS OF WAR

SUMMARY AND RECOMMENDATIONS FOR ADDRESSING PSYCHOLOGICAL AND COGNITIVE INJURIES

Rand Corporation Summarizes key findings and recommendations from *Invisible Wounds of War: Psychological and Cognitive Injuries, Their Consequences, and Services to Assist Recovery* (Tanielian and Jaycox [Eds.], MG-720-CCF, 2008), a comprehensive study of the post-deployment health-related needs associated with post-traumatic stress disorder, major depression, and traumatic brain injury among veterans of Operations Enduring Freedom/Iraqi Freedom.

NATIONAL GUIDE TO FUNDING IN HEALTH

AMERICAN HOSPITAL ASSOCIATION GUIDE TO THE HEALTH CARE FIELD

THE STATE OF THE WORLD'S CHILDREN 2019

CHILDREN, FOOD AND NUTRITION - GROWING WELL IN A CHANGING WORLD

UN This report examines nutrition, providing a fresh perspective on a rapidly evolving challenge. Despite progress in the past two decades, around 200 million under-fives suffer from undernutrition. Adding to this toll is rising obesity, which affects 38 million children. All these forms of malnutrition threaten children's development, while obesity is creating a lifelong legacy of disease. At the heart of this evolving challenge is a global shift towards modern diets that do not meet children's nutritional requirements. The report provides unique data and analysis of malnutrition in the 21st century and outlines recommendations to put children's needs at the heart of global and national food systems.

WWS, WORLD WIDE SHIPPING GUIDE

BONE DENSITOMETRY FOR TECHNOLOGISTS

Springer Science & Business Media Sydney Lou Bonnicks, MD, FACP, and Lori Ann Lewis, MRT, CDT, have updated and expanded their highly praised *Bone Densitometry for Technologists* to reflect the latest standards and developments in the field. Here radiologic technologists, nurse practitioners, physician assistants, and dedicated densitometry technologists can find new guidelines for bone density testing, new therapies for osteoporosis, and new treatment guidelines for osteoporosis, as well as new chapters on pediatric densitometry, body composition

assessments, and the use of skeletal morphometry in diagnosis and fracture risk prediction.

ENCORE ADULTHOOD

BOOMERS ON THE EDGE OF RISK, RENEWAL, AND PURPOSE

Oxford University Press *The Baby Boomer generation is facing a time of heightened uncertainty. Blessed with unprecedented levels of education, health, and life expectancy, many hope to contribute to society after their retirement. Yet they must also navigate ambiguous career exits and retirement paths, as established scripts for schooling, parenting, and careers continue to unravel. In *Encore Adulthood*, Phyllis Moen presents the realities of the "encore" life stage - the years between traditional careers and childraising and old age. Drawing on large-scale data sets and interviews with Boomers, HR personnel, and policymakers, this book illuminates the challenges that Boomers encounter as they transition from traditional careers into retirement. Beyond data analysis, Moen discusses the personal impact for Boomers' wellbeing, happiness, and health when they are unable to engage in meaningful work during their encore years, as well as the potential economic loss that would occur when a large, qualified group of people prematurely exit the workforce. Moen concludes with proposals for a range of encore jobs that could galvanize Boomers to take on desirable and sought-after second acts, emphasizing meaningful work over high-paying jobs and flexibility over long hours. An important analysis of an understudied and new life stage, *Encore Adulthood* makes an important contribution to the existing scholarship on careers, work, and retirement.*

CHEMICAL ENGINEERING EQUIPMENT BUYERS' GUIDE

AIIM BUYING GUIDE AND MEMBERSHIP DIRECTORY

THE INFORMATION MANAGEMENT SOURCEBOOK

GUIDE TO U.S. FOUNDATIONS, THEIR TRUSTEES, OFFICERS, AND DONORS

HANDBOOK OF CLIMATE CHANGE ADAPTATION

THE ... AMERICAN MARKETING ASSOCIATION INTERNATIONAL MEMBER & MARKETING SERVICES GUIDE

U.S. GEOLOGICAL SURVEY WATER-SUPPLY PAPER

VERIFICATION AND VALIDATION IN COMPUTATIONAL SCIENCE AND ENGINEERING

Hermosa Pub

THE GUIDE TO MEDICAL ORGANIZATIONS AND AGENCIES
