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*Evidence Based Validation of Traditional Medicines* Subhash C. Mandal 2021-01-18 The demand for traditional medicines, herbal health products, herbal pharmaceuticals, nutraceuticals, food supplements and herbal cosmetics etc. is increasing globally due to the growing recognition of these products as mainly non-toxic, having lesser side effects, better compatibility with physiological flora, and availability at affordable prices. In the last century, medical science has made incredible advances all over the globe. In spite of global reorganization and a very sound history of traditional uses, the promotion of traditional medicine faces a number of challenges around the globe, primarily in developed nations. Regulation and safety is the high concern for the promotion of traditional medicine. Quality issues and quality control, pharmacovigilance, scientific investigation and validation, intellectual property rights, and biopiracy are some key issues that restrain the advancement of traditional medicine around the globe. This book contains diverse and unique chapters, explaining in detail various subsections like phytomolecule, drug discovery and modern techniques, standardization and validation of traditional medicine, and medicinal plants, safety and regulatory issue of traditional medicine, pharmaceutical excipients from nature, plants for future. The contents of the book will be useful for the academicians, researchers and people working in the area of traditional medicine.

*Understanding Social Entrepreneurship* Jill Kickul 2020-05-01 Understanding Social Entrepreneurship is the leading textbook that provides students with a comprehensive overview of the field. It brings the mindset, principles, strategies, tools, and techniques of entrepreneurship into the social sector to present innovative solutions to today's vexing social issues. Kickul and Lyons cover all the key topics relevant to social entrepreneurship, including a detailed examination of each of the steps in the entrepreneurial process. This third edition includes several new features: A process-oriented format, taking students through discovery, design, development, and delivery Two new chapters: one on lean startup and design thinking for social entrepreneurship, and another on unconventional approaches from developing countries Updated and new case studies, with improved global coverage 'Practically Speaking' sections that explore evidence-based research from the field Bringing together a rigorous theoretical foundation and a strong practical focus, this is the go-to resource for students of social entrepreneurship at undergraduate and postgraduate levels. A companion website includes an instructor's manual, PowerPoint slides, test bank, and other tools to provide additional support for students and instructors.

## **Agriculturally Important Fungi for Sustainable Agriculture**

Ajar Nath Yadav 2021-06-26 Microbes are ubiquitous in nature. Among microbes, fungal communities play an important role in agriculture, the environment, and medicine. Vast fungal diversity has been associated with plant systems, namely epiphytic fungi, endophytic fungi, and rhizospheric fungi. These fungi associated with plant systems play an important role in plant growth, crop yield, and soil health. Rhizospheric fungi, present in rhizospheric zones, get their nutrients from root exudates released by plant root systems, which help with their growth, development, and microbe activity. Endophytic fungi typically enter plant hosts through naturally occurring wounds that are the result of plant growth, through root hairs, or at epidermal conjunctions.

Phyllospheric fungi may survive or proliferate on leaves depending on material influences in leaf diffuseness or exudates. The diverse nature of these fungal communities is a key component of soil-plant systems, where they are engaged in a network of interactions endophytically, phyllospherically, as well as in the rhizosphere, and thus have emerged as a promising tool for sustainable agriculture. These fungal communities promote plant growth directly and indirectly by using plant growth promoting (PGP) attributes. These PGP fungi can be used as biofertilizers and biocontrol agents in place of chemical fertilizers and pesticides for a more eco-friendly method of promoting sustainable agriculture and environments. This first volume of a two-volume set covers the biodiversity of plant-associated fungal communities and their role in plant growth promotion, the mitigation of abiotic stress, and soil fertility for sustainable agriculture. This book should be useful to those working in the biological sciences, especially for microbiologists, microbial biotechnologists, biochemists, and researchers and scientists of fungal biotechnology.

*Fundamentals of Radiation Materials Science* GARY S. WAS 2016-07-08 The revised second edition of this established text offers readers a significantly expanded introduction to the effects of radiation on metals and alloys. It describes the various processes that occur when energetic particles strike a solid, inducing changes to the physical and mechanical properties of the material. Specifically it covers particle interaction with the metals and alloys used in nuclear reactor cores and hence subject to intense radiation fields. It describes the basics of particle-atom interaction for a range of particle types, the amount and spatial extent of the resulting radiation damage, the physical effects of irradiation and the changes in mechanical behavior of irradiated metals and alloys. Updated throughout, some major enhancements for the new edition include improved treatment of low- and intermediate-energy elastic collisions and stopping power, expanded sections on molecular dynamics and kinetic Monte Carlo methodologies describing collision cascade evolution, new treatment of the multi-frequency model of diffusion, numerous examples of RIS in austenitic and ferritic-martensitic alloys, expanded treatment of in-cascade defect clustering, cluster evolution, and cluster mobility, new discussion of void behavior near grain boundaries, a new section on ion beam assisted deposition, and reorganization of hardening, creep and fracture of irradiated materials (Chaps 12-14) to provide a smoother and more integrated transition between the topics. The book also contains two new chapters. Chapter 15 focuses on the fundamentals of corrosion and stress corrosion cracking, covering forms of corrosion, corrosion thermodynamics, corrosion kinetics, polarization theory, passivity, crevice corrosion, and stress corrosion cracking. Chapter 16 extends this treatment and considers the effects of irradiation on corrosion and environmentally assisted corrosion, including the effects of irradiation on water chemistry and the mechanisms of irradiation-induced stress corrosion cracking. The book maintains the previous style, concepts are developed systematically and quantitatively, supported by worked examples, references for further reading and end-of-chapter problem sets. Aimed primarily at students of materials sciences and nuclear engineering, the book will also provide a valuable resource for academic and industrial research professionals. Reviews of the first edition: "...nomenclature, problems and separate bibliography at the end

of each chapter allow to the reader to reach a straightforward understanding of the subject, part by part. ... this book is very pleasant to read, well documented and can be seen as a very good introduction to the effects of irradiation on matter, or as a good references compilation for experimented readers." - Pauly Nicolas, *Physicalia Magazine*, Vol. 30 (1), 2008 "The text provides enough fundamental material to explain the science and theory behind radiation effects in solids, but is also written at a high enough level to be useful for professional scientists. Its organization suits a graduate level materials or nuclear science course... the text was written by a noted expert and active researcher in the field of radiation effects in metals, the selection and organization of the material is excellent... may well become a necessary reference for graduate students and researchers in radiation materials science." - L.M. Dougherty, 07/11/2008, *JOM*, the Member Journal of The Minerals, Metals and Materials Society. *Proceedings of the 12th International Symposium on Computer Science in Sport (IACSS 2019)* Martin Lames 2019-11-14 This book provides an overview of current activities in the fascinating area between computer science and sports, presenting the state of the art in utilising the latest developments in computer science to support sports coaches and athletes. It covers a broad range of topics reflecting the diversity of this interdisciplinary field, including concepts in informatics like expert systems, modelling, simulation, machine learning, robotics, and sensor integration. Further, it describes applications of computer science in sports, such as alpine skiing, badminton, football, rowing, and table tennis, as well as interesting applications areas of sport like dementia, physiology, training, and space flights. The appeals to informaticians interested in the application field of sports as well as for sports scientists and practitioners looking for advanced methods in their particular sport.

**Trends and Applications in Information Systems and Technologies** Álvaro Rocha 2021-03-28 This book is composed of a selection of articles from The 2021 World Conference on Information Systems and Technologies (WorldCIST'21), held online between 30 and 31 of March and 1 and 2 of April 2021 at Hangra de Heroismo, Terceira Island, Azores, Portugal. WorldCIST is a global forum for researchers and practitioners to present and discuss recent results and innovations, current trends, professional experiences and challenges of modern information systems and technologies research, together with their technological development and applications. The main topics covered are: A) Information and Knowledge Management; B) Organizational Models and Information Systems; C) Software and Systems Modeling; D) Software Systems, Architectures, Applications and Tools; E) Multimedia Systems and Applications; F) Computer Networks, Mobility and Pervasive Systems; G) Intelligent and Decision Support Systems; H) Big Data Analytics and Applications; I) Human-Computer Interaction; J) Ethics, Computers & Security; K) Health Informatics; L) Information Technologies in Education; M) Information Technologies in Radiocommunications; N) Technologies for Biomedical Applications.

**Games and Learning Alliance** Iza Marfisi-Schottman 2020-12-02 This book constitutes the refereed proceedings of the 9th International Conference on Games and Learning Alliance, GALA 2020, held in Laval, France, in December 2020. The 35 full papers and 10 short papers were carefully reviewed and selected from 77 submissions. The papers cover a broad spectrum of topics: Serious Game Design; Serious Game Analytics; Virtual and Mixed Reality Applications; Gamification Theory; Gamification Applications; Serious Games for Instruction; and Serious Game Applications and Studies.

**Vehicle Sensors and Actuators** 2005

**Interpenetrating Polymer Network: Biomedical Applications** Sougata Jana 2020-02-18 The book focuses on novel interpenetrating polymer network (IPN)/semi-IPN technologies for drug delivery and biomedical applications. The dynamism of the design and development of interpenetrating network polymers is based on their ability to provide free volume for the easy encapsulation of drugs in the three-dimensional network structure obtained by cross-linking two or more polymer networks. Natural polymer-based IPNs can deliver drugs at a controlled rate over an extended period of time, while novel IPNs ensure better mechanical strength and sustained/ controlled drug-delivery

properties. This book presents an overview of the use of this technology to fabricate nanomedicine, hydrogels, nanoparticles, and microparticles, thereby unlocking IPN's potential in the area of drug delivery and biomedical engineering. It also discusses applications of IPN systems in cancer therapy and tissue engineering, and describes the various IPN systems and their wide usage and applications in drug delivery.

**History of the Office of the Secretary of Defense, Volume V** Lawrence S. Kaplan 2011-06-01 Originally published in 2006, this volume from the History Office of the Office of the Secretary of Defense provides a narrative history and assessment of the early years of Robert McNamara's tenure as Secretary of Defense, including McNamara's relationship with Presidents Kennedy and Johnson, the transformation of the Department of Defense as a part of Kennedy's New Frontier, and the Pentagon's handling of the Cuban Missile Crisis, Bay of Pigs episode, and onset of the Vietnam War along with other major national security events and developments during a turbulent and momentous period of the Cold War.

**From Career to Calling** Suzanne Cremen 2020-04-28 Finalist in the Australian Career Book Award 2020, supported by the Royal Society of Arts Oceania Finding and following an authentic calling challenges us to bridge both the intuitive, soulful and the hard-edged, material dimensions of everyday life. *From Career to Calling: A Depth Psychology Guide to Soul-Making Work in Darkening Times* opens new avenues for vocational exploration and career inquiry in an imaginative way. This unique book draws on insights from the field of Jungian and archetypal psychology to reimagine our attitudes and approaches to work, money, vocational guidance and career development. As people find themselves disillusioned with or disenfranchised from capitalist notions of work and career, Suzanne Cremen's interdisciplinary approach illuminates how a creative, meaningful and influential work-life can emerge from attending to the archetypal basis of experience. Interweaving elements of her own journey, Cremen connects individual experience with the collective in an original way, spotlighting depression in the legal profession, marginalization of the feminine principle in work environments, and how understanding the roots of our cultural complexes can spark personal callings which facilitate collective transformation. Blending compelling real-life stories with robust scholarly analysis and reflective activities, this book will help practitioners to support individuals to develop a sense of their soul's calling and offer guidance on creating an authentic vocational life within the constraints of the contemporary era. Additionally, it will be invaluable to those in career transition, re-discovering their purpose at the end of a career, or commencing work-life.

**Mechanical Engineer's Data Handbook** J. Carvill 2014-05-15 *Mechanical Engineer's Data Handbook* provides a comprehensive yet concise set of information relevant in the practice of mechanical engineering. The book is comprised of eight chapters that cover the main disciplines of mechanical engineering. The text first details the strengths of materials, and then proceeds to discussing applied mechanics. Next, the book talks about thermodynamics and fluid mechanics. The fifth chapter presents manufacturing technology, which includes cutting tools, metal forming processes, and soldering and brazing. The next two chapters deal with engineering materials and measurements, respectively. The last chapter of the text presents general data, such as units, symbols, and fasteners. The book will be most useful to students and practitioners of mechanical engineering. *Proceeding of the Second International Conference on Microelectronics, Computing & Communication Systems (MCCS 2017)* Vijay Nath 2018-07-30 The volume presents high quality papers presented at the Second International Conference on Microelectronics, Computing & Communication Systems (MCCS 2017). The book discusses recent trends in technology and advancement in MEMS and nanoelectronics, wireless communications, optical communication, instrumentation, signal processing, image processing, bioengineering, green energy, hybrid vehicles, environmental science, weather forecasting, cloud computing, renewable energy, RFID, CMOS sensors, actuators, transducers, telemetry systems, embedded systems, and sensor network applications. It includes original papers based on original theoretical, practical, experimental, simulations, development,

application, measurement, and testing. The applications and solutions discussed in the book will serve as a good reference material for future works.

### **Current Developments in Biotechnology and Bioengineering**

**Suresh Kumar Dubey** 2016-09-17 *Current Developments in Biotechnology and Bioengineering: Crop Modification, Nutrition, and Food Production* provides extensive coverage of new developments, state-of-the-art technologies, and potential future trends, presenting data-based scientific knowledge on agribiotechnology and describing world agriculture and the role biotechnology can play in ensuring food security over the next fifty years. The book discusses the effects of climate change in agriculture and the resultant emergence of new crops, including drought tolerant and more nutritious plants. In addition, the book discusses insect and virus resistance in plants and outlines plant metabolic engineering for agriculture, genetically engineered plants, and microbial diseases. Highlights recent developments in agriculture due to biotechnology. Relates the effect of climate change in agriculture to the development of new crops. Describes the application of metabolic engineering in the development of new genetically modified plants.

**Christian Constanda** 2017-03-14 *This textbook is designed with the needs of today's student in mind. It is the ideal textbook for a first course in elementary differential equations for future engineers and scientists, including mathematicians. This book is accessible to anyone who has a basic knowledge of precalculus algebra and differential and integral calculus. Its carefully crafted text adopts a concise, simple, no-frills approach to differential equations, which helps students acquire a solid experience in many classical solution techniques. With a lighter accent on the physical interpretation of the results, a more manageable page count than comparable texts, a highly readable style, and over 1000 exercises designed to be solved without a calculating device, this book emphasizes the understanding and practice of essential topics in a succinct yet fully rigorous fashion. Apart from several other enhancements, the second edition contains one new chapter on numerical methods of solution. The book formally splits the "pure" and "applied" parts of the contents by placing the discussion of selected mathematical models in separate chapters. At the end of most of the 246 worked examples, the author provides the commands in Mathematica® for verifying the results. The book can be used independently by the average student to learn the fundamentals of the subject, while those interested in pursuing more advanced material can regard it as an easily taken first step on the way to the next level. Additionally, practitioners who encounter differential equations in their professional work will find this text to be a convenient source of reference.*

*Applications of Process Engineering Principles in Materials Processing, Energy and Environmental Technologies* **Shijie Wang** 2017-02-07 This collection offers new research findings, innovations, and industrial technological developments in extractive metallurgy, energy and environment, and materials processing. Technical topics included in the book are thermodynamics and kinetics of metallurgical reactions, electrochemical processing of materials, plasma processing of materials, composite materials, ionic liquids, thermal energy storage, energy efficient and environmental cleaner technologies and process modeling. These topics are of interest not only to traditional base ferrous and non-ferrous metal industrial processes but also to new and upcoming technologies, and they play important roles in industrial growth and economy worldwide.

### **High Performance Computing for Intelligent Medical Systems**

**Varun Bajaj** 2021 Modern medicine and healthcare are highly dependent on engineering, employing instrumentation and computer systems to aid investigation, diagnosis, treatment and patient management. The significant developments in the field of computational intelligence, combined with the emergence of high-performance computing is impacting society in many ways, and the health sector is no exception. The interface of high-performance computing, computational intelligence and medical science, has seen the emergence of intelligent medical systems. These systems can provide a deeper insight into many healthcare and medical problems. They can also aid in controlling, analyzing and the management of medical applications and can provide

significant improvement in the quality of life and efficacy of clinical treatment. However, the successful application of high-performance computing in medicine requires in-depth knowledge and understanding of medical systems. This book focuses on the advances and applications of high-performance computing for medical systems and provides an insight into the latest developments in the field. It will help readers to understand the high-performance computing research domain as related to intelligent medical systems, its effect on our lives and its present limitations. Part of IOP Series in Next Generation Computing. *Atkins' Physical Chemistry 11e* **Peter Atkins** 2019-08-20 *Atkins' Physical Chemistry: Molecular Thermodynamics and Kinetics* is designed for use on the second semester of a quantum-first physical chemistry course. Based on the hugely popular *Atkins' Physical Chemistry*, this volume approaches molecular thermodynamics with the assumption that students will have studied quantum mechanics in their first semester. The exceptional quality of previous editions has been built upon to make this new edition of *Atkins' Physical Chemistry* even more closely suited to the needs of both lecturers and students. Re-organised into discrete 'topics', the text is more flexible to teach from and more readable for students. Now in its eleventh edition, the text has been enhanced with additional learning features and maths support to demonstrate the absolute centrality of mathematics to physical chemistry. Increasing the digestibility of the text in this new approach, the reader is brought to a question, then the math is used to show how it can be answered and progress made. The expanded and redistributed maths support also includes new 'Chemist's toolkits' which provide students with succinct reminders of mathematical concepts and techniques right where they need them. Checklists of key concepts at the end of each topic add to the extensive learning support provided throughout the book, to reinforce the main take-home messages in each section. The coupling of the broad coverage of the subject with a structure and use of pedagogy that is even more innovative will ensure *Atkins' Physical Chemistry* remains the textbook of choice for studying physical chemistry.

*Sulfate Minerals* **Charles N. Alpers** 2018-12-17 Volume 40 of *Reviews in Mineralogy and Geochemistry* compiles and synthesizes current information on sulfate minerals from a variety of perspectives, including crystallography, geochemical properties, geological environments of formation, thermodynamic stability relations, kinetics of formation and dissolution, and environmental aspects. The first two chapters cover crystallography (Chapter 1) and spectroscopy (Chapter 2). Environments with alkali and alkaline earth sulfates are described in the next three chapters, on evaporites (Chapter 3), barite-celestine deposits (Chapter 4), and the kinetics of precipitation and dissolution of gypsum, barite, and celestine (Chapter 5). Acidic environments are the theme for the next four chapters, which cover soluble metal salts from sulfide oxidation (Chapter 6), iron and aluminum hydroxysulfates (Chapter 7), jarosites in hydrometallurgy (Chapter 8), and alunite-jarosite crystallography, thermodynamics, and geochronology (Chapter 9). The next two chapters discuss thermodynamic modeling of sulfate systems from the perspectives of predicting sulfate-mineral solubilities in waters covering a wide range in composition and concentration (Chapter 10) and predicting interactions between sulfate solid solutions and aqueous solutions (Chapter 11). The concluding chapter on stable-isotope systematics (Chapter 12) discusses the utility of sulfate minerals in understanding the geological and geochemical processes in both high- and low-temperature environments, and in unraveling the past evolution of natural systems through paleoclimate studies. The review chapters in this volume were the basis for a short course on sulfate minerals sponsored by the Mineralogical Society of America (MSA) November 11-12, 2000 in Tahoe City, California, prior to the Annual Meeting of MSA, the Geological Society of America, and other associated societies in nearby Reno, Nevada. The conveners of the course (and editors of this volume of *Reviews in Mineralogy and Geochemistry*), Alpers, John Jambor, and Kirk Nordstrom, also organized related topical sessions at the GSA meeting on sulfate minerals in both hydrothermal and low-temperature environments.

*The Acquisition of Logging Data* 1984-03-01 *The Acquisition of Logging Data*

**MATLAB® Recipes for Earth Sciences** Martin H. Trauth 2007  
Introduces methods of data analysis in geosciences using MATLAB such as basic statistics for univariate, bivariate and multivariate datasets, jackknife and bootstrap resampling schemes, processing of digital elevation models, gridding and contouring, geostatistics and kriging, processing and georeferencing of satellite images, digitizing from the screen, linear and nonlinear time-series analysis and the application of linear time-invariant and adaptive filters. Includes a brief description of each method and numerous examples demonstrating how MATLAB can be used on data sets from earth sciences.

**Used Car Buying Guide** Consumer Reports Books 1998-08 This specialty buying guide presents easy-to-use historical profiles of some 200 models--cars, trucks, minivans, sport utility vehicles--giving readers a comprehensive view of each model as a used car.

**Mechanism and Theory in Food Chemistry** Dominic W.S. Wong 1989-09-30 This is a unique book on food chemistry emphasizing modern mechanisms underlying the chemical reactions that occur in food during processing and storage and interactions among the components of foods. The author has stressed the principles of the reaction mechanisms, carefully detailing what is known to occur or is expected to occur based on his detailed understanding of organic chemical reactions. This unifies the themes of oxidation, reduction, hydrolysis, structure, polymerization, emulsification, etc., that are key to the conceptual approach used.

**Supramolecular Chemistry in the 3rd Millennium** Catherine E. Housecroft 2021-08-18 This Special Issue is one of the first for the new MDPI flagship journal Chemistry (ISSN 2624-8549) which has a broad remit for publishing original research in all areas of chemistry. The theme of this issue is Supramolecular Chemistry in the 3rd Millennium and I am sure that this topic will attract many exciting contributions. We chose this topic because it encompasses the unity of contemporary pluridisciplinary science, in which organic, inorganic, physical and theoretical chemists work together with molecular biologists and physicists to develop a systems-level understanding of molecular interactions. The description of supramolecular chemistry as 'chemistry beyond the molecule' (Jean-Marie Lehn, Nobel Lecture and Gautam R. Desiraju, Nature, 2001, 412, 397) addresses the wide variety of weak, non-covalent interactions that are the basis for the assembly of supramolecular architectures, molecular receptors and molecular recognition, programmed molecular systems, dynamic combinatorial libraries, coordination networks and functional supramolecular materials. We welcome submissions from all disciplines involved in this exciting and evolving area of science.

**The Electric Power Engineering Handbook** Leonard L. Grigsby 2000-09-28 The astounding technological developments of our age depend on a safe, reliable, and economical supply of electric power. It stands central to continued innovations and particularly to the future of developing countries. Therefore, the importance of electric power engineering cannot be overstated, nor can the importance of this handbook to the power engineer. Until now, however, power engineers have had no comprehensive reference to help answer their questions quickly, concisely, and authoritatively--A one-stop reference written by electric power engineers specifically for electric power engineers.

**Metadata and Semantic Research** Emmanouel Garoufallou 2021-03-17 This book constitutes the thoroughly refereed proceedings of the 14th International Conference on Metadata and Semantic Research, MTSR 2020, held in Madrid, Spain, in December 2020. Due to the COVID-19 pandemic the conference was held online. The 24 full and 13 short papers presented were carefully reviewed and selected from 82 submissions. The papers are organized in the following tracks: metadata, linked data, semantics and ontologies; metadata and semantics for digital libraries, information retrieval, big, linked, social and open data; metadata and semantics for agriculture, food, and environment, AgroSEM 2020; metadata and semantics for open repositories, research information systems and data infrastructures; digital humanities and digital curation, DHC 2020; metadata and semantics for cultural collections and applications; european and national projects; knowledge IT artifacts (KITA) in professional communities and aggregations, KITA 2020.

**To Defend and Deter** John C. Lonnquest 2014-09-15 The Department of Defense's official history of the United States Cold War missile program--completely reformatted with all-new color illustrations and photographs not used in the original edition. The DoD commissioned this study as part of its Cold War Project in 1996. With permission from the DoD's Legacy Program, Hole in the Head Press brings To Defend and Deter back into print. This informative guide offers a thorough look at Cold War missile development, from the earliest beginnings of rocketry in the 13th century to the arms control agreements that began in the 1970s. Both a narrative history and reference guide, To Defend and Deter traces the evolution of the Cold War and establishes the United States missile program's scope and its massive impact on the American landscape, citizens, and structure of the U.S. military establishment. Inside you'll find: Over 400 pages of photographs, illustrations, charts, maps and diagrams In-depth look at Cold War air defense, including Nike, Atlas, Titan, Minuteman, Jupiter, Thor and Snark missiles Technical profiles of weapon systems State-by-state listings of missile facilities and launch sites An extensive bibliography and full index

**The McNamara Ascendancy, 1961-1965** Lawrence S. Kaplan 2006 A narrative history and assessment of the early years of Robert McNamara's tenure as Secretary of Defense, including McNamara's relationship with Presidents Kennedy and Johnson, the transformation of the Department of Defense as a part of Kennedy's New Frontier, and the Pentagon's handling of the Cuban Missile Crisis, Bay of Pigs episode, and onset of the Vietnam War along with other major national security events and developments during a turbulent and momentous period of the Cold War. (Fuller description is on the dust jacket flaps.)

**Emerging Space Powers** Brian Harvey 2011-01-30 This work introduces the important emerging space powers of the world. Brian Harvey describes the origins of the Japanese space program, from rocket designs based on WW II German U-boats to tiny solid fuel 'pencil' rockets, which led to the launch of the first Japanese satellite in 1970. The next two chapters relate how Japan expanded its space program, developing small satellites into astronomical observatories and sending missions to the Moon, Mars, comet Halley, and asteroids. Chapter 4 describes how India's Vikram Sarabhai developed a sounding rocket program in the 1960s. The following chapter describes the expansion of the Indian space program. Chapter 6 relates how the Indian space program is looking ahead to the success of the moon probe Chandrayan, due to launch in 2008, and its first manned launching in 2014. Chapters 7, 8, and 9 demonstrate how, in Iran, communications and remote sensing drive space technology. Chapter 10 outlines Brazil's road to space, begun in the mid-1960's with the launch of the Sonda sounding rockets. The following two chapters describe Brazil's satellites and space launch systems and plans for the future. Chapters 13 and 14 study Israel's space industry. The next chapters look at the burgeoning space programs of North and South Korea. The book ends by contrasting and comparing all the space programs and speculating how they may evolve in the future. An appendix lists all launches and launch attempts to date of the emerging space powers.

**Advanced Combustion Techniques and Engine Technologies for the Automotive Sector** Akhilendra Pratap Singh 2019-10-10 This book discusses the recent advances in combustion strategies and engine technologies, with specific reference to the automotive sector. Chapters discuss the advanced combustion technologies, such as gasoline direct ignition (GDI), spark assisted compression ignition (SACI), gasoline compression ignition (GCI), etc., which are the future of the automotive sector. Emphasis is given to technologies which have the potential for utilization of alternative fuels as well as emission reduction. One special section includes a few chapters for methanol utilization in two-wheelers and four wheelers. The book will serve as a valuable resource for academic researchers and professional automotive engineers alike.

**The Dictionary of Cell and Molecular Biology** John M. Lackie 2012-12-31 The Dictionary of Cell and Molecular Biology, Fifth Edition, provides definitions for thousands of terms used in the study of cell and molecular biology. The headword count has been expanded to 12,000 from 10,000 in the Fourth Edition. Over 4,000 headwords have been rewritten. Some headwords have second, third, and even sixth definitions, while fewer than half are

unchanged. Many of the additions were made to extend the scope in plant cell biology, microbiology, and bioinformatics. Several entries related to specific pharmaceutical compounds have been removed, while some generic entries (“alpha blockers, “NSAIDs, and “tetracycline antibiotics, for example), and some that are frequently part of the experimentalist’s toolkit and probably never used in the clinic, have been retained. The Appendix includes prefixes for SI units, the Greek alphabet, useful constants, and single-letter codes for amino acids. Thoroughly revised and expanded by over 20% with over 12,000 entries in cellular and molecular biology Includes expanded coverage of terms, including plant molecular biology, microbiology and biotechnology areas Consistently provides the most complete short definitions of technical terminology for anyone working in life sciences today Features extensive cross-references Provides multiple definitions, notes on word origins, and other useful features

**Advances in Materials Processing and Manufacturing Applications** Amar Patnaik 2021-06-22 This book presents selected papers from the International Conference on Advances in Materials Processing and Manufacturing Applications (iCADMA 2020), held on November 5–6, 2020, at Malaviya National Institute of Technology, Jaipur, India. iCADMA 2020 proceedings is divided into four topical tracks – Advanced Materials, Materials Manufacturing and Processing, Engineering Optimization and Sustainable Development, and Tribology for Industrial Application.

**Vector Calculus** Susan Jane Colley 2011-10-01 Vector Calculus, Fourth Edition, uses the language and notation of vectors and matrices to teach multivariable calculus. It is ideal for students with a solid background in single-variable calculus who are capable of thinking in more general terms about the topics in the course. This text is distinguished from others by its readable narrative, numerous figures, thoughtfully selected examples, and carefully crafted exercise sets. Colley includes not only basic and advanced exercises, but also mid-level exercises that form a necessary bridge between the two.

**Concepts and Principles of Pharmacology** James E. Barrett 2019-12-24 Celebrating 100 years of HEP, this volume will discuss key pharmacological discoveries and concepts of the past 100 years. These discoveries have dramatically changed the medical treatment paradigms of many diseases and these concepts have and will continue to shape discovery of new medicines. Newly evolving technologies will similarly be discussed as they will shape the future of the pharmacology and, accordingly, medical therapy.

**Engineering Circuit Analysis** Hayt 2011-09  
**Encyclopedia of Sustainability in Higher Education** Walter Leal Filho 2019-10-28 This encyclopedia serves as a tool to support universities across the world to implement sustainable development in higher education in a number of key areas, spread over 5 volumes: 1. Policy-making, visioning, structures, management and strategies 2. Teaching, learning and competencies 3. Research and transformation 4. Campus

greening, design, operations and carbon impacts<sup>5</sup>. Students and stakeholders’ initiatives and involvement The encyclopedia will be of special interest to administrators and managers at higher education institutions; academic staff (e.g. lecturers, professors, researchers); technical staff and students. Also, other groups working outside higher education, but interested on the theory and practice of sustainable development, will find its contents useful.

**Data Driven Approach Towards Disruptive Technologies** T P Singh 2021-04-06 This book is a compilation of peer-reviewed papers presented at the International Conference on Machine Intelligence and Data Science Applications, organized by the School of Computer Science, University of Petroleum & Energy Studies, Dehradun, India, during 4–5 September 2020. The book addresses the algorithmic aspect of machine intelligence which includes the framework and optimization of various states of algorithms. Variety of papers related to wide applications in various fields like data-driven industrial IoT, bioinformatics, network and security, autonomous computing and various other aligned areas. The book concludes with interdisciplinary applications like legal, health care, smart society, cyber-physical system and smart agriculture. All papers have been carefully reviewed. The book is of interest to computer science engineers, lecturers/researchers in machine intelligence discipline and engineering graduates.

**Padua Botanical Garden** 2021

**Epidemiology and the Delivery of Health Care Services** Denise M. Oleske 2012-12-06 In this introductory textbook to epidemiology, students will discover the knowledge and skills required for managing population-based health care under health reform. Fundamental epidemiological techniques are presented teaching students to assess the health status of populations served; determine appropriate interventions based upon knowledge of factors which affect health status; and evaluate the impact of health care systems, programs, technologies, and policies on the health status of populations. Each chapter includes case studies and discussion questions.

**Advances in Energy Systems Engineering** Georgios M. Kopanos 2016-10-17 This book provides a scientific framework for integrated solutions to complex energy problems. It adopts a holistic, systems-based approach to demonstrate the potential of an energy systems engineering approach to systematically quantify different options at various levels of complexity (technology, plant, energy supply chain, mega-system). Utilizing modeling, simulation and optimization-based frameworks, along with a number of real-life applications, it focuses on advanced energy systems including energy supply chains, integrated biorefineries, energy planning and scheduling approaches and urban energy systems. Featuring contributions from leading researchers in the field, this work is useful for academics, researchers, industry practitioners in energy systems engineering, and all those who are involved in model-based energy systems.