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2 volumes, sold as a set. Textbooks of Military Medicine. Section editors Edmund D. Pellegrino, Anthony E. Hartle, and Edmund G. Howe, et al. Addresses medical ethics within a military context.

Accumulating evidence supports the role of defects in post-transcriptional gene regulation in the development of cancer. *RNA and Cancer* examines the recent advances in our understanding of post-transcriptional gene regulation, especially RNA processing and its role in cancer development and treatment. A particular focus is mRNA splicing, but other topics such as microRNAs, mRNA stability, the perinucleolar compartment, and oligonucleotide therapeutics are also covered in detail. All chapters have been written by internationally renowned experts. The book is intended for all with an interest in gene regulation and cancer biology, and especially for those not directly working on RNA biology, including clinicians and medical students. It is hoped that it will stimulate further innovative research collaborations between RNA biologists and cancer researchers to the benefit of patients.

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As we all know, weather radar came into existence during the Second World War when aircraft detection radars had their vision limited by echoes from rain bearing clouds. What was often considered to be of nuisance value by the air force personnel trying to locate enemy aircraft was seen as an opportunity by the weather men. Thus adversity in one field was converted into an opportunity in another. Since then weather radar has found myriad applications with the increased sophistication of technology and processing systems. It has now become an indispensable tool for the operational forecasters, cloud physicists and atmospheric scientists. The current generation radar is but a distant echo of the radars of the 1940s. As a result, its operation and maintenance have become very complex, like the technology it uses. Therefore, there is a definite requirement of focussing our special attention not only on the science of radar meteorology but also on its operational aspects. The present book, as pointed out by the author, attempts to fill this gap. The author has presented the subject with a balanced blend of science, technology and practice. The canvas is indeed very broad. Starting with the history of weather radar development the book goes on to discuss in a lucid style the physics of the atmosphere related to radar observation, radar technology, echo interpretation, different applications and finally attempts to look into the future to indicate potential new opportunities in

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this field.

Volume 8 is part of a multicompendium Edible Medicinal and Non-Medicinal Plants, on plants with edible flowers from Geraniaceae to Zingiberaceae (tabular) and 82 species in Geraniaceae, Iridaceae, Lamiaceae, Liliaceae, Limnocharitaceae, Magnoliaceae, Malvaceae, Meliaceae, Myrtaceae, Nyctaginaceae, Nymphaeaceae, Oleaceae, Onagraceae, Orchidaceae, Paeoniaceae, Papaveraceae, Plantaginaceae, Poaceae, Polygonaceae, Primulaceae, Proteaceae, Ranunculaceae, Rosaceae, Rubiaceae, Rutaceae, Solanaceae, Theaceae, Tropaeolaceae, Tyhpaceae, Violaceae, Xanthorrhoeaceae and Zingiberaceae in detail. This work is of significant interest to medical practitioners, pharmacologists, ethnobotanists, horticulturists, food nutritionists, botanists, agriculturists, conservationists and general public. Topics covered include: taxonomy; common/ vernacular names; origin/ distribution; agroecology; edible plant parts/uses; botany; nutritive/medicinal properties, nonedible uses and selected references.

Opportunities and optimism in Aging. Issues in Aging, 3rd edition takes an optimistic view of aging and human potential in later life. This book presents the most up-to-date facts on aging today, the issues raised by these facts, and the societal and individual responses that will create a successful old age for us all.

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Mark Novak presents the full picture of aging--exhibiting both the problems and the opportunities that accompany older age. The text illustrates how generations are dependent on one another and how social conditions affect both the individual and social institutions. Learning Goals -Upon completing this book, readers will be able to: -Understand how large-scale social issues--social attitudes, the study of aging, and demographic issues--affect individuals and social institutions -Identify the political responses to aging and how individuals can create a better old age for themselves and the people they know -Separate the myths from the realities of aging -Recognize the human side of aging -Trace the transformation of pension plans, health, and opportunities for personal expression and social engagement to the new ecology of aging today

"Media Literacy is a captivating, engaging, reader-friendly textbook essential for introductory Media Studies courses in communication, sociology, film studies, and English." -SirReadaLot.org In this media-saturated world, it is critical to approach media influences using critical thought and active participation. Media Literacy, Fourth Edition uses an engaging and conversational style to help students gain the skills needed to navigate the rocky terrain of mass messages - which are designed to inform them, to entertain them, and to sell them. This captivating book offers a plan of action for gaining a clearer perspective on the borders between the real world and the simulated media

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world, helping readers become responsible media consumers.

As drug development shifts over time to address unmet medical needs and more targeted therapies are developed, previously unseen pharmacological or off-target effects may occur in treatment. Designed to provide practical information for the bench toxicologic pathologist working in pharmaceutical drug research, *Toxicologic Pathology: Nonclinical Safety Assessment* presents a histopathologic description of lesions observed during drug development and discusses their implication in the drug development process. Divided into two sections, the book systematically assists pathologists in making a determination as to the origin and potential importance of a lesion and its relevance for assessing human risk. The first section includes eight "concept" chapters to orient pathologists in areas that are important for effective interaction with other pathologists as well as the many non-pathologists involved in drug development. The second section is made up of organ-based chapters, each including light microscopic and electron microscopic descriptions of pathological lesions, differential diagnoses, biological consequences, pathogenesis, mechanism of lesion formation, and the expected clinical pathology correlates. This volume presents critical information—both published and unpublished and gained through personal experience—to improve the quality of drug safety evaluation and to expedite and improve the efficiency of the process. This book is crafted to assist students, residents, and toxicologic pathologists in their early career phase by serving as a resource that

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can effectively be used as a ready reference next to the microscope. In addition, more experienced pathologists will find this volume to be invaluable during their assessments. The book is also a valuable reference for toxicologists to assist in understanding compound-related pathological findings and to provide background for working on a range of toxicological problems.

For a long time there has been a critical need for a book to assess the genomics of tropical plant species. At last, here it is. This brilliant book covers recent progress on genome research in tropical crop plants, including the development of molecular markers, and many more subjects. The first section provides information on crops relevant to tropical agriculture. The book then moves on to lay out summaries of genomic research for the most important tropical crop plant species.

Scents can carry a lot of important information about the environment, conspecifics and other species. While some of these scents are positively related, as the odor of food, mating partners, or familiar conspecifics, other scents are associated with negative situations and events, e.g. the occurrence of a predator, an aggressive territorial conspecific or spoiled food. The present research topic is focused on such “scents that matter”, i.e., scents that are crucial for the survival of an organism. Since many years, the importance of scents always attracts scientists to investigate how scents affect the behavior of mammals, via which mechanisms scents are perceived and how scents modulate neural circuitries responsible for behavior. We believe that this research topic

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gives a nice overview on current 'olfactory research.' Many of the contributions are focused on scents with aversive effects, i.e. kairomones or pheromones that warn about potential threats. These studies range from research articles identifying new active odor components of predator odors, describing the induced behavioral changes and the underlying neuroanatomical and neurochemical mechanisms, to review articles summarizing the findings of the last decades on this field. Other articles are focused on the effects of scents in social behaviors or on associative learning. This research topic also represents nicely the current combination of methodological approaches in 'olfactory research': cell biologists, geneticists, behavioral pharmacologists, neuroanatomists, and computational modelers work effectively together to unravel the mechanisms of how scents matters in humans and animals.

In this book the details of many calculations are provided for access to work in quantum groups, algebraic differential calculus, noncommutative geometry, fuzzy physics, discrete geometry, gauge theory, quantum integrable systems, braiding, finite topological spaces, some aspects of geometry and quantum mechanics and gravity.

"Enhance your airway management skills and overcome clinical challenges with Benumof and Hagberg's! This one-of-a-kind resource offers expert, full-color guidance on preintubation and postintubation techniques and protocols, from equipment selection through management of complications."--Back cover.

The 2020 National Electrical Code covers the most current standards and topics such as: renewable energy and energy storage.

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The second edition of Handbook of Essential Oils: Science, Technology, and Applications provides a much-needed compilation of information related to the development, use, and marketing of essential oils. It focuses particularly on the chemistry, pharmacology, and biological activities of essential oils, with contributions from a worldwide group of

Androgens and androgen receptors (AR) play critical roles in the development and progression of prostate cancer, the most frequently diagnosed cancer and second leading cause of cancer death in US males. AR is an androgen-dependent DNA-binding transcription factor that regulates the expression of androgen-responsive genes. Identification and characterization of androgen-responsive genes provide insights into the cellular mechanisms of androgen action and may lead to new approaches in diagnosis, prognosis, prevention and/or treatment of prostate cancer. This volume provides critical information from well respected experts in the field. Some of the exciting topics include the new understanding of mechanisms underlining the regulation of androgen-responsive gene expression, and functions of various androgen-responsive genes in biological processes essential in carcinogenesis including cell growth, angiogenesis, and epithelial-to-mesenchyme transition (EMT). Other important aspects addressed are the current and potential clinic applications of knowledge on androgen-responsive gene regulation and function. This book is intended for researchers, scientists, faculty, and advanced graduate students with an interest in androgen action and prostate cancer.?

The production of textile materials comprises a very large and complex global industry that utilises a diverse range of fibre types and creates a variety of textile products. As the great majority of such products are coloured, predominantly using aqueous dyeing processes, the

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coloration of textiles is a large-scale global business in which complex procedures are used to apply different types of dye to the various types of textile material. The development of such dyeing processes is the result of substantial research activity, undertaken over many decades, into the physico-chemical aspects of dye adsorption and the establishment of 'dyeing theory', which seeks to describe the mechanism by which dyes interact with textile fibres. *Physico-Chemical Aspects of Textile Coloration* provides a comprehensive treatment of the physical chemistry involved in the dyeing of the major types of natural, man-made and synthetic fibres with the principal types of dye. The book covers: fundamental aspects of the physical and chemical structure of both fibres and dyes, together with the structure and properties of water, in relation to dyeing; dyeing as an area of study as well as the terminology employed in dyeing technology and science; contemporary views of intermolecular forces and the nature of the interactions that can occur between dyes and fibres at a molecular level; fundamental principles involved in dyeing theory, as represented by the thermodynamics and kinetics of dye sorption; detailed accounts of the mechanism of dyeing that applies to cotton (and other cellulosic fibres), polyester, polyamide, wool, polyacrylonitrile and silk fibres; non-aqueous dyeing, as represented by the use of air, organic solvents and supercritical CO₂ fluid as alternatives to water as application medium. The up-to-date text is supported by a large number of tables, figures and illustrations as well as footnotes and widespread use of references to published work. The book is essential reading for students, teachers, researchers and professionals involved in textile coloration.

This book addresses “phyto-microbiome mediated stress regulation”.

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Fundamentally speaking, the microbial community's importance for the survival of plants under stress conditions has already been confirmed. This book focuses on the roles of those rhizospheric microbiomes that are advantageous to plant developmental pathways. Gathering contributions by authors with specialized expertise in plant growth and health under stress conditions, as well as opportunistic pathogenic bacteria, the book reviews the functional aspects of rhizospheric microorganisms and how they impact plant health and disease. It offers a compendium of plant and microbial interactions at the level of multitrophic interactions, and identifies gaps between future demand and present research on plant stress. In closing, the authors highlight several directions for reshaping rhizosphere microbiomes in favor of microorganisms that are beneficial to plant growth and health.

Protein Byproducts: Transformation from Environmental Burden into Value-Added Products deals with the added value of proteinaceous waste byproducts, discussing in detail the different sources of protein-rich byproducts, their extraction, recovery, and characterization. The book provides thorough insights into different protein modification techniques to extend the product portfolio using these waste byproducts. Divided between three main sections, the book covers various feedstock resources, such as animal-derived/plant-derived proteins,

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marine waste-derived proteins, protein extraction and recovery methods, and related technical issues including modification and conversion technologies for the production of high value bioproducts. It contains contributions from experts in the fields of applied industrial microbiology, engineering, bioprocess technology, protein chemistry, food chemistry, agriculture, plant sciences, environmental science, and waste management, serving as a comprehensive reference for students and research scientists in the food and agriculture industries. Covers various feedstock resources, protein extraction, recovery methods, and related technical issues Presents modification and conversion technologies for the production of high value bioproducts Exhibits case studies and examples to illustrate both driving forces and constraints in the utilization of these proteinaceous materials Contains contributions from experts in the fields of applied industrial microbiology, engineering, bioprocess technology, protein chemistry, food chemistry, agriculture, plant sciences, environmental science, and waste management Serves as a comprehensive reference for students and research scientists in the food and agriculture industries

Differential algebra explores properties of solutions to systems of (ordinary or partial, linear or nonlinear) differential equations from an algebraic point of view. It includes as special cases algebraic systems as well as differential systems with

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algebraic constraints. This algebraic theory of Joseph F Ritt and Ellis R Kolchin is further enriched by its interactions with algebraic geometry, Diophantine geometry, differential geometry, model theory, control theory, automatic theorem proving, combinatorics, and difference equations. Differential algebra now plays an important role in computational methods such as symbolic integration, and symmetry analysis of differential equations. This volume includes tutorial and survey papers presented at workshop. Contents: The Ritt–Kolchin Theory for Differential Polynomials (W Y Sit) Differential Schemes (J J Kovacic) Differential Algebra — A Scheme Theory Approach (H Gillet) Model Theory and Differential Algebra (T Scanlon) Inverse Differential Galois Theory (A R Magid) Differential Galois Theory, Universal Rings and Universal Groups (M van der Put) Cyclic Vectors (R C Churchill & J J Kovacic) Differential Algebraic Techniques in Hamiltonian Mechanics (R C Churchill) Moving Frames and Differential Algebra (E L Mansfield) Baxter Algebras and Differential Algebras (L Guo) Readership: Graduate students, pure mathematicians, logicians, algebraic geometers, applied mathematicians and physicists. Keywords: Differential Algebra; Mathematical Logic; Algebraic Geometry; Mathematical Physics

In Clinical Orthopaedic Rehabilitation: An Evidence-Based Approach, Dr. S. Brent Brotzman and Robert C. Manske help you apply the most effective,

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evidence-based protocols for maximizing return to function following common sports injuries and post-surgical conditions. A well-respected, comprehensive source for evaluating, treating, and rehabilitating orthopaedic patients, the 3rd Edition guides you on the prevention of running injuries, the latest perturbation techniques, and the ACL rehabilitation procedures and functional tests you need to help get your patients back in the game or the office. You'll also find a brand-new spine rehabilitation section, an extensively revised art program, and online access to videos demonstrating rehabilitation procedures of common orthopaedic conditions at www.expertconsult.com. Get expert guidance on everything you may see on a day-to-day basis in the rehabilitation of joint replacements and sports injuries. Apply evidence-based rehabilitation protocols to common sports conditions like ACL and meniscus injuries and post-surgical rehabilitation for the knee, hip, and shoulder. See how to perform perturbation techniques for ACL rehabilitation, ACL functional tests and return-to-play criteria after reconstruction, analysis of running gait to prevent and treat running injury, and more with videos online at www.expertconsult.com. Use the expert practices described in Tendinopathy and Hip Labral Injuries, part of the expanded "Special Topics" section, to help patients realize quicker recovery times. Visualize physical examination and rehabilitation techniques with the extensively revised art

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program that presents 750 figures and illustrations. The new edition of the well-respected Brotzman has been updated to consistently include evidence-based rehabilitation protocols, as well as comprehensive coverage and videos at a great value!

This volume of Current Topics in Membranes focuses on adrenergic receptor biology, beginning with a review of past successes and historical perspectives then further discussing current general trends in adrenergic receptor studies in various contexts. This publication also includes discussions of the role and relationship of adrenergic receptors to different systems and diseases, establishing adrenergic receptor biology as a needed, practical reference for researchers.

In Clinical Orthopaedic Rehabilitation: An Evidence-Based Approach, Dr. S. Brent Brotzman and Robert C. Manske help you apply the most effective, evidence-based protocols for maximizing return to function following common sports injuries and post-surgical conditions. A well-respected, comprehensive source for evaluating, treating, and rehabilitating orthopaedic patients, the 3rd Edition guides you on the prevention of running injuries, the latest perturbation techniques, and the ACL rehabilitation procedures and functional tests you need to help get your patients back in the game or the office. You'll also find a brand-new spine rehabilitation section, an extensively revised art program, and online access to videos demonstrating rehabilitation procedures of common orthopaedic conditions at www.expertconsult.com. Get

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expert guidance on everything you may see on a day-to-day basis in the rehabilitation of joint replacements and sports injuries. Apply evidence-based rehabilitation protocols to common sports conditions like ACL and meniscus injuries and post-surgical rehabilitation for the knee, hip, and shoulder. See how to perform perturbation techniques for ACL rehabilitation, ACL functional tests and return-to-play criteria after reconstruction, analysis of running gait to prevent and treat running injury, and more with videos online at www.expertconsult.com. Use the expert practices described in Tendinopathy and Hip Labral Injuries, part of the expanded "Special Topics" section, to help patients realize quicker recovery times. Visualize physical examination and rehabilitation techniques with the extensively revised art program that presents 750 figures and illustrations.

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Database Systems: The Complete Book is ideal for Database Systems and Database Design and Application courses offered at the junior, senior and graduate levels in Computer Science departments. A basic understanding of algebraic expressions and laws, logic, basic data structure, OOP concepts, and programming environments is implied. Written by well-known computer scientists, this introduction to database systems offers a comprehensive approach, focusing on database design, database use, and implementation of database applications and database management systems. The first half of the book provides in-depth coverage of databases from the point of view of the database designer, user, and application programmer. It covers the latest database standards SQL:1999, SQL/PSM, SQL/CLI, JDBC, ODL, and XML, with broader coverage of SQL than most other texts. The second half of the book provides in-depth

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coverage of databases from the point of view of the DBMS implementor. It focuses on storage structures, query processing, and transaction management. The book covers the main techniques in these areas with broader coverage of query optimization than most other texts, along with advanced topics including multidimensional and bitmap indexes, distributed transactions, and information integration techniques.

This book highlights how terpenoids act as biological messengers and can be used as medicine against liver disease, neurodegenerative disease, cancer, infectious disease, cardiovascular disease, and inflammatory diseases. It emphasizes the metabolic engineering approach of terpenoids production and their toxicity.

Physico-chemical Aspects of Textile Coloration John Wiley & Sons

New and Future Developments in Microbial Biotechnology and Bioengineering: Penicillium System Properties and Applications covers important research work on the applications of penicillium from specialists from an international perspective. The book compiles advancements and ongoing processes in the penicillium system, along with updated information on the possibilities for future developments. All chapters are derived from current peer reviewed literature as accepted by the international scientific community. These important fungi were found to secrete a range of novel enzymes and other useful proteins, and are still being extensively studied and improved for specific use in the food, textile, pulp and paper, biocellulosic ethanol production and other industries. The book caters to the needs of researchers/academicians dealing with penicillium spp. related research and applications, outlining emerging issues on recent advancements made in the area of research and its applications in bioprocess technology, chemical engineering, molecular taxonomy,

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biofuels/bioenergy research and alternative fuel development. In addition, the book also describes the identification of useful compound combinations/enzyme cocktails and the fermentation conditions required to obtain them at an industrial scale. Finally, the book provides updated information on the best utilization of these fungi as a natural tool to meet the next challenges of biotechnology. Compiles the latest developments and current studies in the penicillium system Contains chapters contributed by top researchers with global appeal Includes current applications in bioindustry and lists future potential applications of these fungi species Identifies future research needs for these important fungi, including the best utilization of them as a natural tool to meet the next challenges of biotechnology

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