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Hallucinatory phenomena have held the fascination of science since the dawn of medicine, and the popular imagination from the beginning of recorded history. Their study has become a critical aspect of our knowledge of the brain, making significant strides in recent years with advances in neuroimaging, and has established common ground among what normally are regarded as disparate fields. The Neuroscience of Hallucinations synthesizes the most up-to-date findings on these intriguing auditory, visual, olfactory, gustatory, and somatosensory experiences, from their molecular origins to their cognitive expression. In recognition of the wide audience for this information among the neuroscientific, medical, and psychology communities, its editors bring a mature evidence base to highly subjective experience. This knowledge is presented in comprehensive detail as leading researchers across the disciplines ground readers in the basics, offer current cognitive, neurobiological, and computational models of hallucinations, analyze the latest neuroimaging technologies, and discuss emerging interventions, including neuromodulation therapies, new antipsychotic drugs, and integrative programs. Among the topics covered: Hallucinations in the healthy individual. A pathophysiology of transdiagnostic hallucinations including computational and connectivity modeling. Molecular mechanisms of hallucinogenic drugs. Structural and functional variations in the hallucinatory brain in schizophrenia. The neurodevelopment of hallucinations. Innovations in brain stimulation techniques and imaging-guided therapy. Psychiatrists, neurologists, neuropsychologists, cognitive neuroscientists, clinical psychologists, and pharmacologists will welcome The Neuroscience of Hallucinations as a vital guide to the current state and promising future of their shared field.

Sickle Cell Pain is a panoramic, in-depth exploration of every scientific, human, and social dimension of this cruel disease. This comprehensive, definitive work is unique in that it is the only book devoted to sickle cell pain, as opposed to general aspects of the disease. The 752-page book links sickle cell pain to basic, clinical, and translational research, addressing various aspects of sickle pain from molecular biology to the psychosocial aspects of the disease. Supplemented with patient narratives, case studies, and visual art, Sickle Cell Pain's scientific rigor extends through its discussion of analgesic pharmacology, including abuse-deterrent formulations. The book also addresses in great detail inequities in access to care, stereotyping and stigmatization of patients, the implications of rapidly evolving models of care, and recent legislation and litigation and their consequences.

This book is B&W copy of the government agency publication. This edition of The Management of Sickle Cell Disease (SCD) is organized into four parts: Diagnosis and Counseling, Health Maintenance, Treatment of Acute and Chronic Complications, and Special Topics. The original intent was to incorporate evidence-based medicine into each chapter, but there was variation among evidence-level scales, and some authors felt recommendations could be made, based on accepted practice, without formal trials in this rare disorder. The best evidence still is represented by randomized, controlled trials (RCTs), but variations exist in their design, conduct, endpoints, and analyses. It should be emphasized that selected people enter a trial, and results should apply in practice specifically to populations with the same characteristics as those in the trial. Randomization is used to reduce imbalances

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between groups, but unexpected factors sometimes may confound analysis or interpretation. In addition, a trial may last only a short period of time, but long-term clinical implications may exist. Another issue is treatment variation, for example, a new pneumococcal vaccine developed after the trial, which has not been tested formally in a sickle cell population. Earlier trial results may be accepted, based on the assumption that the change is small. In some cases, RCTs cannot be done satisfactorily (e.g., for ethical reasons, an insufficient number of patients, or a lack of objective measures for sickle cell "crises"). Thus the bulk of clinical experience in SCD still remains in the moderately strong and weaker categories of evidence. Not everyone has an efficacious outcome in a clinical trial, and the frequency of adverse events, such as with long-term transfusion programs or hematopoietic transplants, might not be considered. Thus, an assessment of benefit-to-risk ratio should enter into translation of evidence levels into practice recommendations. A final issue is that there may be two alternative approaches that are competitive (e.g., transfusions and hydroxyurea). In this case the pros and cons of each course of treatment should be discussed with the patient. Pharmaceutical packaging requires a greater knowledge of materials and a greater intensity of testing than most other packed products, not to mention a sound knowledge of pharmaceutical products and an understanding of regulatory requirements. Structured to meet the needs of the global market, this volume provides an assessment of a wide range of issues. It covers the entire supply chain from conversion of raw materials into packaging materials and then assembled into product packs. Integrating information from many drug delivery systems, the author discusses testing and evaluation and emphasizes traceability and the need to for additional safeguards.

"One Health" is defined as an approach to achieve better health outcomes for humans, animals, and the environment through collaborative and interdisciplinary efforts. The One Health framework is increasingly being applied to the management, control, and even elimination of neglected tropical diseases (NTDs), a set of infectious diseases that, collectively, affect more than one billion people across almost 150 countries. NTDs are some of the most common infections in the world; they cause substantial morbidity and mortality, particularly in regions with little access to medical care and other resources. Although there is increasing recognition of the major public health threat presented by NTDs, the ecological complexities of their transmission continue to pose challenges for their control and elimination. Some NTDs are zoonotic, meaning that they can be transmitted between humans and animals and, as such, present obstacles for public health and veterinary services in addition to concerns for wildlife conservation. Vector-borne NTDs necessitate measures that integrate consideration of the environment into public health strategies in order to sustainably reduce disease transmission. This book presents a collection of papers that explore various aspects of how the One Health concept is being applied to NTD control around the world, from genomics and diagnostic tools to improved surveillance and disease management. Encompassing research from Central America, the Caribbean, Asia, and sub-Saharan Africa, the collection emphasizes the diversity of NTDs as well as the critical importance of multisectoral collaboration for their control and elimination. This program provides a comprehensive description of the techniques healthcare providers should use when working with patients undergoing sterile procedures. Beginning by describing surgical scrub, as well as, the use of antiseptic hand gels, it then shows

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how to put on a sterile gown and concludes by demonstrating both open and closed methods of donning gloves.

This edited book, is a collection of 20 articles describing the recent advancements in the application of microbial technology for sustainable development of agriculture and environment. This book covers many aspects like agricultural nanotechnology, promising applications of biofuels production by algae, advancements and application of microbial keratinase, biocontrol agents, plant growth promoting rhizobacteria, bacterial siderophore, use of microbes in detoxifying organophosphate pesticides, bio-surfactants, biofilms, bioremediation degradation of phenol and phenolic compounds and bioprospecting of endophytes. This book intends to bring the latest research advancements and technologies in the area of microbial technology in one platform, providing the readers an up-to-date view on the area. This book would serve as an excellent reference book for researchers and students in the agricultural, environmental and microbiology fields.

In spite of their tragic nature, and notwithstanding the human suffering they create, emergency situations are also opportunities to build better mental health care. The surge of aid, combined with sudden, focused attention on the mental health of the population, creates unparalleled opportunities to transform mental health care for the long term. By publishing this information, the World Health Organization ensures that those faced with emergencies do not miss the opportunity for mental health reform. Emergencies are not only mental health tragedies, but also powerful catalysts for achieving sustainable mental health care in affected communities. We do not know where the next major emergency will be, but we do know that those affected will have the opportunity to build back better. Reading this publication is an excellent way to prepare for and respond to that eventuality. The ten cases that form the core of this report show how it can be done. Early commitment towards a longer-term perspective for mental health reform is key to success. The report summarizes lessons learned and key overlapping practices emerging from these experiences.

This book is a completely revised new edition of the definitive reference on disorders of hemoglobin. Authored by world-renowned experts, the book focuses on basic science aspects and clinical features of hemoglobinopathies, covering diagnosis, treatment, and future applications of current research. While the second edition continues to address the important molecular, cellular, and genetic components, coverage of clinical issues has been significantly expanded, and there is more practical emphasis on diagnosis and management throughout. The book opens with a review of the scientific underpinnings. Pathophysiology of common hemoglobin disorders is discussed next in an entirely new section devoted to vascular biology, the erythrocyte membrane, nitric oxide biology, and hemolysis. Four sections deal with α and β thalassemia, sickle cell disease, and related conditions, followed by special topics. The second edition concludes with current and developing approaches to treatment, incorporating new agents for iron chelation, methods to induce fetal hemoglobin production, novel treatment approaches, stem cell transplantation, and progress in gene therapy.

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Organized nanoassemblies of inorganic nanoparticles and organic molecules are building blocks of nanodevices, whether they are designed to perform molecular level computing, sense the environment or improve the catalytic properties of a material. The key to creation of these hybrid nanostructures lies in understanding the chemistry at a fundamental level. This book serves as a reference book for researchers by providing fundamental understanding of many nanoscopic materials.

Safe Management of Wastes from Health-care Activities World Health Organization
From Hypertension to Heart Failure Springer Science & Business Media

The aim of this book is to provide a selection of representative MCQs together with a detailed explanation of each answer covering the topic in depth. Each chapter has been written by experienced Urological surgeons who have already been successful in passing the examination. In addition to the FRCS(Urol) examination MCQs form the basis of equivalent postgraduate Urological examinations internationally and the scope of this book will be an invaluable addition to individuals sitting the FEBU and similar exams in the USA, Australia and Asian countries. Established consultants may also find the text useful as a 'refresher' in areas outside their subspecialist interest.

This report describes the current situation with regard to universal health coverage and global quality of care, and outlines the steps governments, health services and their workers, together with citizens and patients need to urgently take.

Textbook in neuroscience used in teaching undergraduate as well as graduate students for education in specialized fields of medicine. A source of information for researchers in neuroscience, psychology, audiology etc.

Rapidly increasing aging population and environmental stressors are the two main global concerns of increasing incidence of a variety of pathologies in the modern society. The complex etiologies and pathologies cause major challenges to disease treatment. On the other hand, several herbs are known for their health-caring and disease-curing activities. Ashwagandha, a popular herb in Indian traditional home medicine, Ayurveda, has gathered increasing recognition in recent years when the chemically synthesized drugs for single target therapies showed limited success and adverse toxic effects. Ashwagandha is known as a powerful adaptogen and trusted to enhance function of the brain, reproductive system, cell-mediated immunity and increase the body's defense against disease, and possess anti-inflammatory, anticancer and anti-arthritis activities. In this book, for the first time, we provide a complete portrait on scientific understanding of the effects of Ashwagandha and its active principles for a variety of preventive and therapeutic activities.

A concise, up-to-date review of the many new therapies available for the treatment of benign prostatic hypertrophy (BPH). The authors concisely evaluate the latest minimally invasive therapies, as well as time-tested surgical treatments, and review the medical therapies for BPH, namely α -adrenergic antagonists, 5- α reductase inhibitors, and their therapeutic combinations.

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Additional chapters examine the pathophysiology and natural history of BPH, its epidemiology, and the urodynamic evaluation of lower urinary tract symptoms. A perfect reference source for the practicing urologist seeking sound guidance on the best approach to his patients.

Arterial hypertension, coronary heart disease and heart failure are the commonest cardiovascular conditions to present in clinical practice. Over the past few years it has become increasingly clear that they are closely and causally interrelated and that their relationship can have a significant bearing on prognosis. Epidemiological studies have shown that arterial hypertension is one of the most important risk factors for developing heart failure. Only one in four patients with hypertension is adequately managed, and in 50% of cases, the hypertension has not been recognised or treated. Patients with pre-existing hypertension who go on to suffer an acute myocardial infarction have usually not previously had typical angina symptoms, the infarct territory is larger, life threatening arrhythmias are commoner and hence in-hospital mortality and long-term prognosis are markedly worse. The presence of raised blood pressure in the post-infarct phase doubles the risk of manifest heart failure. The close relationship between hypertension, coronary heart disease and heart failure makes the choice of therapeutic strategy particularly important. Agents and classes of agents that have prognostic value in all three conditions should be considered first, as synergy might result in additional benefits. In such patients, this sort of therapeutic decision-making might have further advantages. The use of these agents may prevent complications which are not yet clinically obvious (such as heart failure).

"Mesmerizing & fascinating..." —The Seattle Post-Intelligencer "The Freakonomics of big data." —Stein Kretsinger, founding executive of Advertising.com Award-winning | Used by over 30 universities | Translated into 9 languages An introduction for everyone. In this rich, fascinating — surprisingly accessible — introduction, leading expert Eric Siegel reveals how predictive analytics (aka machine learning) works, and how it affects everyone every day. Rather than a "how to" for hands-on techies, the book serves lay readers and experts alike by covering new case studies and the latest state-of-the-art techniques. Prediction is booming. It reinvents industries and runs the world. Companies, governments, law enforcement, hospitals, and universities are seizing upon the power. These institutions predict whether you're going to click, buy, lie, or die. Why? For good reason: predicting human behavior combats risk, boosts sales, fortifies healthcare, streamlines manufacturing, conquers spam, optimizes social networks, toughens crime fighting, and wins elections. How? Prediction is powered by the world's most potent, flourishing unnatural resource: data. Accumulated in large part as the by-product of routine tasks, data is the unsalted, flavorless residue deposited en masse as organizations churn away. Surprise! This heap of refuse is a gold mine. Big data embodies an extraordinary wealth of experience from which to learn. Predictive analytics (aka machine learning) unleashes the power of data. With this technology, the computer literally learns from data how to predict the future behavior of individuals. Perfect prediction is not possible, but putting odds on the future drives millions of decisions more effectively, determining whom to call, mail, investigate, incarcerate, set up on a date, or medicate. In this lucid, captivating introduction — now in its Revised and Updated edition — former Columbia University professor and Predictive Analytics World founder Eric Siegel reveals the power and perils of

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prediction: What type of mortgage risk Chase Bank predicted before the recession. Predicting which people will drop out of school, cancel a subscription, or get divorced before they even know it themselves. Why early retirement predicts a shorter life expectancy and vegetarians miss fewer flights. Five reasons why organizations predict death — including one health insurance company. How U.S. Bank and Obama for America calculated the way to most strongly persuade each individual. Why the NSA wants all your data: machine learning supercomputers to fight terrorism. How IBM's Watson computer used predictive modeling to answer questions and beat the human champs on TV's Jeopardy! How companies ascertain untold, private truths — how Target figures out you're pregnant and Hewlett-Packard deduces you're about to quit your job. How judges and parole boards rely on crime-predicting computers to decide how long convicts remain in prison. 182 examples from Airbnb, the BBC, Citibank, ConEd, Facebook, Ford, Google, the IRS, LinkedIn, Match.com, MTV, Netflix, PayPal, Pfizer, Spotify, Uber, UPS, Wikipedia, and more. How does predictive analytics work? This jam-packed book satisfies by demystifying the intriguing science under the hood. For future hands-on practitioners pursuing a career in the field, it sets a strong foundation, delivers the prerequisite knowledge, and whets your appetite for more. A truly omnipresent science, predictive analytics constantly affects our daily lives. Whether you are a consumer of it — or consumed by it — get a handle on the power of Predictive Analytics.

First multi-year cumulation covers six years: 1965-70.

Providing a historical perspective on the etiology of lung cancer, this comprehensive reference presents an in-depth analysis of the epidemiology of cancer of the lung-describing the current understanding of risk factors and the use of epidemiological data to design programs for the control of this leading cause of death worldwide.

Text and Essentials of Surgical Specialties, Second Edition Package

The 2018 edition of The State of World Fisheries and Aquaculture emphasizes the sector's role in achieving the 2030 Agenda for Sustainable Development and the Sustainable Development Goals, and measurement of progress towards these goals. It notes the particular contributions of inland and small-scale fisheries, and highlights the importance of rights-based governance for equitable and inclusive development. As in past editions, the publication begins with a global analysis of trends in fisheries and aquaculture production, stocks, processing and use, trade and consumption, based on the latest official statistics, along with a review of the status of the world's fishing fleets and human engagement and governance in the sector. Topics explored in Parts 2 to 4 include aquatic biodiversity; the ecosystem approach to fisheries and to aquaculture; climate change impacts and responses; the sector's contribution to food security and human nutrition; and issues related to international trade, consumer protection and sustainable value chains. Global developments in combating illegal, unreported and unregulated fishing, selected ocean pollution concerns and FAO's efforts to improve capture fishery data are also discussed. The issue concludes with the outlook for the sector, including projections to 2030. As always, The State of World Fisheries and Aquaculture aims to provide objective, reliable and up-to-date information to a wide audience, including policy-makers, managers, scientists, stakeholders and indeed all those interested in the fisheries and aquaculture sector.

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Frontiers in Clinical Drug Research – Diabetes and Obesity is an eBook series that brings updated reviews to readers interested in advances in the development of pharmaceutical agents for the treatment of two metabolic diseases – diabetes and obesity. The scope of the eBook series covers a range of topics including the medicinal chemistry, pharmacology, molecular biology and biochemistry of natural and synthetic drugs affecting endocrine and metabolic processes linked with diabetes and obesity.

Reviews in this series also include research on specific receptor targets and pre-clinical / clinical findings on novel pharmaceutical agents. Frontiers in Clinical Drug Research – Diabetes and Obesity is a valuable resource for pharmaceutical scientists and postgraduate students seeking updated and critically important information for developing clinical trials and devising research plans in the field of diabetes and obesity research. The fourth volume of this series features 7 chapters: -Pharmacologic Obesity Treatment -Interplay Between Bile Acid and GLP-1 Receptor Agonist Signaling Informs the Design of Drugs to Combat Obesity and its Metabolic Complications -Sodium–Glucose Co-Transporters Inhibitors for Type 2 Diabetes Mellitus -The Effects of Traditional Chinese Medicine on Inflammatory Cytokines in Diabetic Nephropathy -Through the Perspective of Histology – The Alzheimer’s Disease Promotion by Obesity and Glucose Metabolism: Type 3 Diabetes -Pharmacological Mechanism of PPAR? Ratio in Diabetes and Obesity -Hydrogen Sulfide and Carbohydrate Metabolism

Advances in itch research have elucidated differences between itch and pain but have also blurred the distinction between them. There is a long debate about how somatic sensations including touch, pain, itch, and temperature sensitivity are encoded by the nervous system. Research suggests that each sensory modality is processed along a fixed, direct-line communication system from the skin to the brain. Itch: Mechanisms and Treatment presents a timely update on all aspects of itch research and the clinical treatment of itch that accompanies many dermatological conditions including psoriasis, neuropathic itch, cutaneous t-cells lymphomas, and systemic diseases such as kidney and liver disease and cancer. Composed of contributions from distinguished researchers around the world, the book explores topics such as: Neuropathic itch Peripheral neuronal mechanism of itch The role of PAR-2 in neuroimmune communication and itch Mrgprs as itch receptors The role of interleukin-31 and oncostatin M in itch and neuroimmune communication Spinal coding of itch and pain Spinal microcircuits and the regulation of itch Examining new findings on cellular and molecular mechanisms, the book is a compendium of the most current research on itch, its prevalence in society, and the problems associated with treatment.

Calcium and vitamin D are essential nutrients for the human body. Establishing the levels of these nutrients that are needed by the North American population is based on the understanding of the health outcomes that calcium and vitamin D affect. It is also important to establish how much of each nutrient may be "too much." Dietary Reference Intakes for Calcium and Vitamin D provides reference intake values for these two nutrients. The report updates the DRI values defined in Dietary Reference Intakes for Calcium, Phosphorus, Magnesium, Vitamin D, and Fluoride, the 1997 study from the Institute of Medicine. This 2011 book provides background information on the biological functions of each nutrient, reviews health outcomes that are associated with the intake of calcium and vitamin D, and specifies Estimated Average Requirements and Recommended Dietary Allowances for both.

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It also identifies Tolerable Upper Intake Levels, which are levels above which the risk for harm may increase. The book includes an overview of current dietary intake in the U.S. and Canada, and discusses implications of the study. A final chapter provides research recommendations. The DRIs established in this book incorporate current scientific evidence about the roles of vitamin D and calcium in human health and will serve as a valuable guide for a range of stakeholders including dietitians and other health professionals, those who set national nutrition policy, researchers, the food industry, and private and public health organizations and partnerships.

A guide to the techniques and analysis of clinical data. Each of the seventeen sections begins with a drawing and biographical sketch of a seminal contributor to the discipline. After an introduction and historical survey of clinical methods, the next fifteen sections are organized by body system. Each contains clinical data items from the history, physical examination, and laboratory investigations that are generally included in a comprehensive patient evaluation. Annotation copyrighted by Book News, Inc., Portland, OR

Smart Textiles and Their Applications outlines the fundamental principles of applied smart textiles, also reporting on recent trends and research developments. Scientific issues and proposed solutions are presented in a rigorous and constructive way that fully presents the various results, prototypes, and case-studies obtained from academic and industrial laboratories worldwide. After an introduction to smart textiles and their applications from the editor, Part One reviews smart textiles for medical purposes, including their use in health monitoring, treatment delivery, and assistive technologies. Part Two covers smart textiles for transportation and energy, with chapters covering smart textiles for the monitoring of structures and processes, as well as smart textiles for energy generation. The final section considers smart textiles for protection, security, and communication, and includes chapters covering electrochromic textile displays, textile antennas, and smart materials for personal protective equipment. Scientific issues and proposed solutions are presented in a rigorous and constructive way regarding various results, prototypes, and case-studies obtained from academic and industrial laboratories worldwide Useful for researchers and postgraduate students, and also for existing companies and start-ups that are developing products involving smart textiles Authored and edited by an international team who are experts in the field ensure comprehensive coverage and global relevance

This book emphasizes past and current research efforts about principles of natural control of major parasites affecting humans, animals, and crops. Each chapter is a complete and integrated subject that presents a problem and confers on the safe alternatives to chemicals. This book discusses and updates information about three major topics of natural remedies. The first topic is represented in a chapter outlining important information on biological control of parasites, the second topic is represented in three chapters dealing with botanicals as promising antiparasitic agents, and the last four chapters deal with miscellaneous control strategies against parasites. This easily readable book is designed precisely for students as well as professors linked with the field of parasitic control. We enhanced words with breathing areas in the form of graphical abstracts, figures, photographs, and tables.

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The World Report on Disability suggests more than a billion people totally experience disability. They generally have poorer health, lower education and fewer economic opportunities and higher rates of poverty than people without disabilities. This report provides the best available evidence about what works to overcome barriers to better care and services.

In the late 1980s, the National Cancer Institute initiated an investigation of cancer risks in populations near 52 commercial nuclear power plants and 10 Department of Energy nuclear facilities (including research and nuclear weapons production facilities and one reprocessing plant) in the United States. The results of the NCI investigation were used a primary resource for communicating with the public about the cancer risks near the nuclear facilities. However, this study is now over 20 years old. The U.S. Nuclear Regulatory Commission requested that the National Academy of Sciences provide an updated assessment of cancer risks in populations near USNRC-licensed nuclear facilities that utilize or process uranium for the production of electricity. Analysis of Cancer Risks in Populations near Nuclear Facilities: Phase 1 focuses on identifying scientifically sound approaches for carrying out an assessment of cancer risks associated with living near a nuclear facility, judgments about the strengths and weaknesses of various statistical power, ability to assess potential confounding factors, possible biases, and required effort. The results from this Phase 1 study will be used to inform the design of cancer risk assessment, which will be carried out in Phase 2. This report is beneficial for the general public, communities near nuclear facilities, stakeholders, healthcare providers, policy makers, state and local officials, community leaders, and the media.

Converging Media, Third Edition, expertly covers today's rapidly changing landscape while preparing students for what comes tomorrow. Unlike any other book on the market, Converging Media's synthesis of industrial, cultural, and technological perspectives more accurately reflects today's world. This new approach demands a more balanced and nuanced understanding of the role that technology and digital media have played in our mass communication environment. This third edition has undergone several major changes to keep pace with the rapidly evolving world of media.

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