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KEY=CALCULATIONS - AMIYA LLOYD

Nutrient Requirements of Laboratory Animals, Fourth Revised Edition, 1995 National Academies Press In the years since the third edition of this indispensable reference was published, a great deal has been learned about the nutritional requirements of common laboratory species: rat, mouse, guinea pig, hamster, gerbil, and vole. The Fourth Revised Edition presents the current expert understanding of the lipid, carbohydrate, protein, mineral, vitamin, and other nutritional needs of these animals. The extensive use of tables provides easy access to a wealth of comprehensive data and resource information. The volume also provides an expanded background discussion of general dietary considerations. In addition to a more user-friendly organization, new features in this edition include: A significantly expanded section on dietary requirements for rats, reporting substantial new findings. A new section on nutrients that are not required but that may produce beneficial results. New information on growth and reproductive performance among the most commonly used strains of rats and mice and on several hamster species. An expanded discussion of diet formulation and preparation--including sample diets of both purified and natural ingredients. New information on mineral deficiency and toxicity, including warning signs. This authoritative resource will be important to researchers, laboratory technicians, and manufacturers of laboratory animal feed. **A Plain English Guide to the EPA Part 503 Biosolids Rule Bioprocess Engineering Principles** Elsevier The emergence and refinement of techniques in molecular biology has changed our perceptions of medicine, agriculture and environmental management. Scientific breakthroughs in gene expression, protein engineering and cell fusion are being translated by a strengthening biotechnology industry into revolutionary new products and services. Many a student has been enticed by the promise of biotechnology and the excitement of being near the cutting edge of scientific advancement. However, graduates trained in molecular biology and cell manipulation soon realise that these techniques are only part of the picture. Reaping the full benefits of biotechnology requires manufacturing capability involving the large-scale processing of biological material. Increasingly, biotechnologists are being employed by companies to work in co-operation with chemical engineers to achieve pragmatic commercial goals. For many years aspects of biochemistry and molecular genetics have been included in chemical engineering curricula, yet there has been little attempt until recently to teach aspects of engineering applicable to process design to biotechnologists. This textbook is the first to present the principles of bioprocess engineering in a way that is accessible to biological scientists. Other texts on bioprocess engineering currently available assume that the reader already has engineering training. On the other hand, chemical engineering textbooks do not consider examples from bioprocessing, and are written almost exclusively with the petroleum and chemical industries in mind. This publication explains process analysis from an engineering point of view, but refers exclusively to the treatment of biological systems. Over 170 problems and worked examples encompass a wide range of applications, including recombinant cells, plant and animal cell cultures, immobilised catalysts as well as traditional fermentation systems. * * First book to present the principles of bioprocess engineering in a way that is accessible to biological scientists * Explains process analysis from an engineering point of view, but uses worked examples relating to biological systems * Comprehensive, single-authored * 170 problems and worked examples encompass a wide range of applications, involving recombinant plant and animal cell cultures, immobilized catalysts, and traditional fermentation systems * 13 chapters, organized according to engineering sub-disciplines, are grouped in four sections - Introduction, Material and Energy Balances, Physical Processes, and Reactions and Reactors * Each chapter includes a set of problems and exercises for the student, key references, and a list of suggestions for further reading * Includes useful appendices, detailing conversion factors, physical and chemical property data, steam tables, mathematical rules, and a list of symbols used * Suitable for course adoption - follows closely curricula used on most bioprocessing and process biotechnology courses at senior undergraduate and graduate levels. **The Brain That Changes Itself Stories of Personal Triumph from the Frontiers of Brain Science** Penguin "Fascinating. Doidge's book is a remarkable and hopeful portrait of the endless adaptability of the human brain."—Oliver Sacks, MD, author of *The Man Who Mistook His Wife for a Hat* What is neuroplasticity? Is it possible to change your brain? Norman Doidge's inspiring guide to the new brain science explains all of this and more An astonishing new science called neuroplasticity is overthrowing the centuries-old notion that the human brain is immutable, and proving that it is, in fact, possible to change your brain. Psychoanalyst, Norman Doidge, M.D., traveled the country to meet both the brilliant scientists championing neuroplasticity, its healing powers, and the people whose lives they've transformed—people whose mental limitations, brain damage or brain trauma were seen as unalterable. We see a woman born with half a brain that rewired itself to work as a whole, blind people who learn to see, learning disorders cured, IQs raised, aging brains rejuvenated, stroke patients learning to speak, children with cerebral palsy learning to move with more grace, depression and anxiety disorders successfully treated, and lifelong character traits changed. Using these marvelous stories to probe mysteries of the body, emotion, love, sex, culture, and education, Dr. Doidge has written an immensely moving, inspiring book that will permanently alter the way we look at our brains, human nature, and human potential. **Endodontics Principles and**

Practice Elsevier Health Sciences This 4th edition is an essential scientific & clinical building block for understanding the etiology & treatment of teeth with pulpal & periapical diseases. You'll easily understand & learn procedures through step-by-step explanations accompanied by illustrations, as well as video clips included on CD. **Dental Management of the Medically Compromised Patient Mosby Elsevier Health Science** Is an up-to-date, concise, factual reference describing the dental management of patients with selected medical problems. The book offers the dental provider an understanding of how to ascertain the severity and stability of common medical disorders, and make dental management decisions that afford the patient the utmost health and safety. Medical problems are organized to provide a brief overview of the basic disease process, the incidence and prevalence of the disease, pathophysiology, signs and symptoms, laboratory findings, currently accepted medical therapy of each problem, and a detailed explanation and recommendations for specific dental management. The accumulation of evidence-based research over the last few years has allowed the authors to include more specific dental management guidelines in the sixth edition. **Seawater Reverse Osmosis Desalination Assessment & Pre-treatment of Fouling and Scaling IWA Publishing** This textbook covers the fundamentals of fouling and scaling in reverse osmosis systems. It includes theory and practice of pre-treatment, fouling and scaling in reverse osmosis applied for drinking and industrial water production. The impact of the water source - seawater, river water, brackish groundwater and (treated domestic) waste water - will be discussed in depth. The book presents the knowledge and experience gained at IHE Delft over the last 25 years during the implementation of the master programme in Water Supply Engineering and during the implementation of state-of-the-art research in understanding and solving operational problems in full scale desalination plants. It presents the expert knowledge of IHE Delft in the areas of pre-treatment for reverse osmosis systems, assessment of water quality with respect to fouling potential, development of methods for quality assessment, modified fouling index ultrafiltration at constant flux, transparent exopolymer particles, antiscalant dose optimization, biological growth potential), algal blooms, scaling control. The book will be used in the annual master programme at IHE Delft and it will be of interest for students, academics, engineers and managers in drinking water facilities all over the world. **The Laboratory Rat Biology and Diseases Elsevier** The Laboratory Rat, Volume I: Biology and Diseases focuses on the use of rats in specific areas of research, ranging from dental research to toxicology. The first part of this book retraces the biomedical history of early events and personalities involved in the establishment of rats as a leading laboratory animal. The taxonomy, genetics and inbred strains of rats are also elaborated. The next chapters illustrate the hematology, clinical biochemistry, and anatomical and physiological features of the laboratory rat. This text concludes with a description of infectious diseases that may be contracted from laboratory and/or wild rats. This volume is a good source for commercial and institutional organizations involved in producing rats for research use, specialists in laboratory animal, animal care and research technicians, as well as students in graduate and professional curricula. **Reservoir Sedimentation Handbook Design and Management of Dams, Reservoirs, and Watersheds for Sustainable Use McGraw Hill Professional** Proven strategies for controlling reservoir sediment All the state-of-the-art tools you need to extend water reservoir life by controlling sediment are packed into this hands-on resource. It helps you plan, design and manage both existing and proposed reservoirs and their associates watersheds. You'll learn to manage sediment for sustainable development. . .analyze suspended and deposited sediment. . .and estimate and measure erosion rates. Packed with clear illustrations and how-to examples, the book give you the know-how to: master sediment transport processes in reservoirs apply mathematical and physical models to analyze sediment processes route inflowing sediment through or around reservoir storage pools use turbid density currents to control sedimentation empty and scour sediments from a reservoir by means of hydraulic flushing and much more **No Logo Taking Aim at the Brand Bullies Macmillan** An analysis of the invasion of our personal lives by logo-promoting, powerful corporations combines muckraking journalism with contemporary memoir to discuss current consumer culture **Food Processing Technology Principles and Practice, Third Edition CRC Press** Widely regarded as a standard work in its field, this book introduces the range of processing techniques that are used in food manufacturing. It explains the principles of each process, the processing equipment used, operating conditions and the effects of processing on micro-organisms that contaminate foods, the biochemical properties of foods and their sensory and nutritional qualities. The book begins with an overview of important basic concepts. It describes unit operations that take place at ambient temperature or involve minimum heating of foods. Subsequent chapters examine operations that heat foods to preserve them or alter their eating quality, and explore operations that remove heat from foods to extend their shelf life with minimal changes in nutritional quality or sensory characteristics. Finally, the book reviews post-processing operations, including packaging and distribution logistics. The third edition has been substantially rewritten, updated and extended to include the many developments in food technology that have taken place since the second edition was published in 2000. Nearly all unit operations have undergone significant developments, and these are reflected in the large amount of additional material in each chapter. In particular, advances in microprocessor control of equipment, 'minimal' processing technologies, genetic modification of foods, functional foods, developments in 'active' or 'intelligent' packaging, and storage and distribution logistics are described. Developments in technologies that relate to cost savings, environmental improvement or enhanced product quality are highlighted. Additionally, sections in each chapter on the impact of processing on food-borne micro-organisms are included for the first time. **The Information A History, a Theory, a Flood Vintage** From the bestselling author of the acclaimed Chaos and Genius comes a thoughtful and provocative exploration of the big ideas of the modern era: Information, communication, and information theory. Acclaimed science writer James Gleick presents an eye-opening vision of how our relationship to information has transformed the very nature of human consciousness. A fascinating intellectual journey through the history of communication and information, from the language of Africa's talking drums to the invention of written alphabets; from the electronic transmission of code to the origins of information theory, into the new information age and the current deluge of news, tweets, images, and blogs. Along the way, Gleick profiles key innovators, including Charles Babbage, Ada Lovelace, Samuel Morse, and Claude Shannon, and reveals how our understanding of information is transforming not only how we look at the world, but how we live. A New York Times Notable Book A Los Angeles Times and Cleveland Plain Dealer Best Book of the Year Winner of the PEN/E. O. Wilson Literary Science Writing Award **Insecticides Design Using Advanced Technologies Springer Science & Business Media** Among the highlights of this book are the use of nanotechnology to increase potency of available insecticides, the use of genetic engineering techniques for controlling insect pests, the development

of novel insecticides that bind to unique biochemical receptors, the exploration of natural products as a source for environmentally acceptable insecticides, and the use of insect genomics and cell lines for determining biological and biochemical modes of action of new insecticides. **The Story-book of Science Insect Physiological Ecology Mechanisms and Patterns** OUP Oxford This book provides a modern, synthetic overview of interactions between insects and their environments from a physiological perspective that integrates information across a range of approaches and scales. It shows that evolved physiological responses at the individual level are translated into coherent physiological and ecological patterns at larger, even global scales. This is done by examining in detail the ways in which insects obtain resources from the environment, process these resources in various ways, and turn the results into energy which allows them to regulate their internal environment as well as cope with environmental extremes of temperature and water availability. The book demonstrates that physiological responses are not only characterized by substantial temporal variation, but also shows coherent variation across several spatial scales. At the largest, global scale, there appears to be substantial variation associated with the hemisphere in which insects are found. Such variation has profound implications for patterns of biodiversity as well as responses to climate change, and these implications are explicitly discussed. The book provides a novel integration of the understanding gained from broad-scale field studies of many species and the more narrowly focused laboratory investigations of model organisms. In so doing it reflects the growing realization that an integration of mechanistic and large-scale comparative physiology can result in unexpected insights into the diversity of insects. **Pervious Concrete Pavements Pediatrics** Lippincott Williams & Wilkins ere is a concise, practical guide for third year medical students seeking to make the most of their pediatric clinical clerkship. Stressing logical, efficient problem solving, differential diagnosis and implementation of treatment, the text also helps the reader understand the distinctions between ambulatory and in-patient settings **Geotechnical Site Characterization Proceedings of the First International Conference on Site Characterization, ISC'98, Atlanta, Georgia, 19-22 April 1998** Taylor & Francis **Pharmaceutical Manufacturing Handbook Production and Processes** John Wiley & Sons This handbook features contributions from a team of expert authors representing the many disciplines within science, engineering, and technology that are involved in pharmaceutical manufacturing. They provide the information and tools you need to design, implement, operate, and troubleshoot a pharmaceutical manufacturing system. The editor, with more than thirty years' experience working with pharmaceutical and biotechnology companies, carefully reviewed all the chapters to ensure that each one is thorough, accurate, and clear. **500 Examples and Problems of Applied Differential Equations** Springer This book highlights an unprecedented number of real-life applications of differential equations together with the underlying theory and techniques. The problems and examples presented here touch on key topics in the discipline, including first order (linear and nonlinear) differential equations, second (and higher) order differential equations, first order differential systems, the Runge-Kutta method, and nonlinear boundary value problems. Applications include growth of bacterial colonies, commodity prices, suspension bridges, spreading rumors, modeling the shape of a tsunami, planetary motion, quantum mechanics, circulation of blood in blood vessels, price-demand-supply relations, predator-prey relations, and many more. Upper undergraduate and graduate students in Mathematics, Physics and Engineering will find this volume particularly useful, both for independent study and as supplementary reading. While many problems can be solved at the undergraduate level, a number of challenging real-life applications have also been included as a way to motivate further research in this vast and fascinating field. **Field Guide for the Identification of Invasive Plants in Southern Forests** DIANE Publishing Invasions of non-native plants into forests of the Southern United States continue to go unchecked and only partially un-monitored. These infestations increasingly erode forest productivity, hindering forest use and management activities, and degrading diversity and wildlife habitat. Often called non-native, exotic, non-indigenous, alien, or noxious weeds, they occur as trees, shrubs, vines, grasses, ferns, and forbs. This guide provides information on accurate identification of the 56 non-native plants and groups that are currently invading the forests of the 13 Southern States. In additin, it lists other non-native plants of growing concern. Illustrations. This is a print on demand edition of an important, hard-to-find publication. **Dust Control Handbook for Industrial Minerals Mining and Processing** CreateSpace Throughout the mining and processing of minerals, the mined ore undergoes a number of crushing, grinding, cleaning, drying, and product sizing operations as it is processed into a marketable commodity. These operations are highly mechanized, and both individually and collectively these processes can generate large amounts of dust. If control technologies are inadequate, hazardous levels of respirable dust may be liberated into the work environment, potentially exposing workers. Accordingly, federal regulations are in place to limit the respirable dust exposure of mine workers. Engineering controls are implemented in mining operations in an effort to reduce dust generation and limit worker exposure. **Fluid Meters Their Theory and Application. Report Advances in Concentrating Solar Thermal Research and Technology** Woodhead Publishing After decades of research and development, concentrating solar thermal (CST) power plants (also known as concentrating solar power (CSP) and as Solar Thermal Electricity or STE systems) are now starting to be widely commercialized. Indeed, the IEA predicts that by 2050, with sufficient support over ten percent of global electricity could be produced by concentrating solar thermal power plants. However, CSP plants are just but one of the many possible applications of CST systems. Advances in Concentrating Solar Thermal Research and Technology provides detailed information on the latest advances in CST systems research and technology. It promotes a deep understanding of the challenges the different CST technologies are confronted with, of the research that is taking place worldwide to address those challenges, and of the impact that the innovation that this research is fostering could have on the emergence of new CST components and concepts. It is anticipated that these developments will substantially increase the cost-competitiveness of commercial CST solutions and reshape the technological landscape of both CST technologies and the CST industry. After an introductory chapter, the next three parts of the book focus on key CST plant components, from mirrors and receivers to thermal storage. The final two parts of the book address operation and control and innovative CST system concepts. Contains authoritative reviews of CST research taking place around the world Discusses the impact this research is fostering on the emergence of new CST components and concepts that will substantially increase the cost-competitiveness of CST power Covers both major CST plant components and system-wide issues **Urban Storm Drainage Criteria Manual Stormwater Best Management Practices** Water Resources Publications **Sheep, Goat, and Cervid Medicine - E-Book** Elsevier Health Sciences Get practical answers from the only guide on the care of sheep, goats, and cervids! Authoritative yet easy to read, Sheep, Goat and Cervid Medicine, 3rd Edition covers all

the latest advances in the field, including diseases and medical treatment, surgery, pain management, theriogenology, and nutrition. Clear instructions and hundreds of full-color photographs guide you step by step through common procedures including restraint for examination, administration of drugs, blood collection, and grooming. New to this edition is coverage of deer and elk medicine, reflecting the growing interest in these ruminants. Written by an expert team led by Dr. D.G. Pugh, this comprehensive reference is ideal for veterinarians and also for owners of sheep and goats. Clear writing style and consistent organization makes the book easy to understand and use, with disease chapters including pathogenesis, clinical signs, diagnosis, treatment, and prevention. Coverage of both surgery and medicine in each body systems chapter makes it easier to choose between treatment options for specific disorders. Superbly illustrated surgical procedures clearly demonstrate the steps to follow in performing medical and reproductive surgery. Diverse, expert contributors include the most experienced authorities, each providing current information on the care of valuable breeding stock as well as pets. Useful appendixes, now including veterinary feed directives, offer convenient access to information on drugs and drug dosages, fluid therapy, and normal values and conversions. Consistent, logical format in each body systems chapter makes information easy to find by beginning with physical examination and diagnostic procedures, followed by discussions of common diseases that involve the system. Comprehensive Feeding and Nutrition chapter covers diet evaluation, method of balancing rations, total parenteral nutrition, and examples of nutritious diets. Explanation of the differences in normal behavior between sheep and goats shows how they are not the same, and require different methods of treatment. NEW! Coverage of cervids has been added to chapters throughout the book, reflecting the growing popularity of deer and elk. NEW! Thorough content updates are made throughout the book and reflect the latest research evidence. NEW! 170 new clinical photos have been added. NEW! Anesthesia and Pain Management chapter includes a new section on pain management strategies, reflecting the emphasis on controlling pain in small ruminants. NEW! Expert Consult website offers an online version of the book, making it easy to search the entire book electronically. NEW! Two new authors are respected and well-known veterinary medicine experts and educators: Dr. Misty Edmondson and Dr. Thomas Passler.

Aerosol Science Technology and Applications John Wiley & Sons Aerosols influence many areas of our daily life. They are at the core of environmental problems such as global warming, photochemical smog and poor air quality. They can also have diverse effects on human health, where exposure occurs in both outdoor and indoor environments. However, aerosols can have beneficial effects too; the delivery of drugs to the lungs, the delivery of fuels for combustion and the production of nanomaterials all rely on aerosols. Advances in particle measurement technologies have made it possible to take advantage of rapid changes in both particle size and concentration. Likewise, aerosols can now be produced in a controlled fashion. Reviewing many technological applications together with the current scientific status of aerosol modelling and measurements, this book includes:

- Satellite aerosol remote sensing
- The effects of aerosols on climate change
- Air pollution and health
- Pharmaceutical aerosols and pulmonary drug delivery
- Bioaerosols and hospital infections
- Particle emissions from vehicles
- The safety of emerging nanomaterials
- Radioactive aerosols: tracers of atmospheric processes

With the importance of this topic brought to the public's attention after the eruption of the Icelandic volcano Eyjafjallajökull, this book provides a timely, concise and accessible overview of the many facets of aerosol science.

Man-made Vitreous Fibres World Health Organization "This publication represents the views and expert opinions of an IARC working group on the evaluation of carcinogenic risks to humans, which met in Lyon, 9-16 October 2001."

Development of Biopharmaceutical Drug-Device Products Springer Nature The biotechnology/biopharmaceutical sector has tremendously grown which led to the invention of engineered antibodies such as Antibody Drug Conjugates (ADCs), Bispecific T-cell engager (BITES), Dual Variable Domain (DVD) antibodies, and fusion proteins that are currently being used as therapeutic agents for immunology, oncology and other disease conditions. Regulatory agencies have raised the bar for the development and manufacture of antibody-based products, expecting to see the use of Quality by Design (QbD) elements demonstrating an in-depth understanding of product and process based on sound science. Drug delivery systems have become an increasingly important part of the therapy and most biopharmaceuticals for self-administration are being marketed as combination products. A survey of the market indicates that there is a strong need for a new book that will provide "one stop shopping" for the latest information and knowledge of the scientific and engineering advances made over the last few years in the area of biopharmaceutical product development. The new book entitled Development of Biopharmaceutical Drug Device Products is a reference text for scientists and engineers in the biopharmaceutical industry, academia or regulatory agencies. With insightful chapters from experts in the field, this new book reviews first principles, covers recent technological advancements and provides case studies and regulatory strategies relating to the development and manufacture of antibody-based products. It covers topics such as the importance of early preformulation studies during drug discovery to influence molecular selection for development, formulation strategies for new modalities, and the analytical techniques used to characterize them. It also addresses important considerations for later stage development such as the development of robust formulations and processes, including process engineering and modeling of manufacturing unit operations, the design of analytical comparability studies, and characterization of primary containers (pre-filled syringes and vials). Finally, the latter half of the book reviews key considerations to ensure the development and approval of a patient-centered delivery system design. This involves the evolving regulatory framework with perspectives from both the US and EU industry experts, the role of international standards, design control/risk management, human factors and its importance in the product development and regulatory approval process, as well as review of the risk-based approach to bridging between devices used in clinical trials and the to-be-marketed device. Finally, case studies are provided throughout. The typical readership would have biology and/or engineering degrees and would include researchers, scientific leaders, industry specialists and technology developers working in the biopharmaceutical field.

Principles of Fermentation Technology Elsevier This second edition has been thoroughly updated to include recent advances and developments in the field of fermentation technology, focusing on industrial applications. The book now covers new aspects such as recombinant DNA techniques in the improvement of industrial micro-organisms, as well as including comprehensive information on fermentation media, sterilization procedures, inocula, and fermenter design. Chapters on effluent treatment and fermentation economics are also incorporated. The text is supported by plenty of clear, informative diagrams. This book is of great interest to final year and post-graduate students of applied biology, biotechnology, microbiology, biochemical and chemical engineering.

Sustainable Surface Water Management A Handbook for SUDS John Wiley & Sons

Sustainable Surface Water Management: a handbook for SUDS addresses issues as diverse as flooding, water quality, amenity and biodiversity but also mitigation of, and adaptation to, global climate change, human health benefits and reduction in energy use. Chapters are included to cover issues from around the world, but they also address particular designs associated with the implementation of SUDS in tropical areas, problems with retrofitting SUDS devices, SUDS modelling, water harvesting in drought-stricken countries using SUDS and the inclusion of SUDS in the climate change strategies of such cities as Tokyo, New York and Strasbourg. **The Sexual Politics of Meat (20th Anniversary Edition) A Feminist-Vegetarian Critical Theory** A&C Black **> Surgery PreTest Self-Assessment and Review, Fourteenth Edition** McGraw Hill Professional A perfect and portable way to succeed on your surgery rotation and the shelf exam **Surgery: PreTest Self-Assessment & Review** is a targeted way to prepare for the surgery clerkship. You'll find hundreds of questions that cover the content you'll encounter on the actual shelf exam. The range of question topics covers the clerkship's core competencies and each question includes high yield explanations of both correct and incorrect answers. All questions have been reviewed by students who successfully completed their clerkship to ensure that topics and questions align with directly with today's surgery clerkships. • Hundreds of questions just like you'll see on the shelf exam • High yield explanations for right and wrong answers • Targets what you really need to know for clerkship success • Updated to include all relevant advances in the surgery field • Student tested and reviewed **Textbook of Pediatric Gastroenterology, Hepatology and Nutrition A Comprehensive Guide to Practice** Springer This textbook provides a comprehensive and state-of-the-art overview of the major issues specific to the field of pediatric gastroenterology, hepatology, and nutrition. The first part of the book, Gastroenterology and Nutrition, presents in a systematic way the overall scope of issues encountered by children (newborn to teenagers) suffering from disorders of the gastrointestinal tract, pancreas and/or presenting nutritional issues. These chapters are structured in logical sections to facilitate consultation and include major topics ranging from congenital disorders to gastrointestinal problems of the newborn, infectious diseases of the gastrointestinal tract, and approach to nutritional problems in the various pediatric ages. The second part of the book, Hepatology, is articulated in a series of chapters which present a comprehensive review of congenital and acquired disorders of the biliary tract and liver. This section also includes a critical analysis of available diagnostic and therapeutic procedures and future perspectives. Written by experts in the field, Textbook of Pediatric Gastroenterology, Hepatology and Nutrition: A Comprehensive Guide to Practice constitutes a much needed, innovative resource combining updated, reliable and comprehensive information with agile consultation for a streamlined approach to the care of children with such disorders. **Science Fiction and Psychology** Liverpool Science Fiction Texts & Studies The psychologist may appear in science fiction as the herald of utopia or dystopia; literary studies have used psychoanalytic theories to interpret science fiction; and psychology has employed science fiction as an educational medium. Science Fiction and Psychology goes beyond such incidental observations and engagements to offer an in-depth exploration of science fiction literature's varied use of psychological discourses, beginning at the birth of modern psychology in the late nineteenth century and concluding with the ascendance of neuroscience in the late twentieth century. Rather than dwelling on psychoanalytic readings, this literary investigation combines with history of psychology to offer attentive textual readings that explore five key psychological schools: evolutionary psychology, psychoanalysis, behaviourism, existential-humanism, and cognitivism. The varied functions of psychological discourses in science fiction are explored, whether to popularise and prophesy, to imagine utopia or dystopia, to estrange our everyday reality, to comment on science fiction itself, or to abet (or resist) the spread of psychological wisdom. Science Fiction and Psychology also considers how psychology itself has made use of science fiction in order to teach, to secure legitimacy as a discipline, and to comment on the present. **Space Vehicle Design AIAA Engineering and Design Soil Vapor Extraction and Bioventing (Engineer Manual EM 1110-1-4001)** Military Bookshop This manual provides practical guidance for the design and operation of soil vapor extraction (SVE) and bioventing (BV) systems. It is intended for use by engineers, geologists, hydrogeologists, and soil scientists, chemists, project managers, and others who possess a technical education and some design experience but only the broadest familiarity with SVE or BV systems. **Mfc-3M-2004 Measurement Of Fluid Flow In Pipes Using Orifice, Nozzle, And Venturi** Amer Society of Mechanical **Site Planning and Design Handbook, Second Edition** McGraw Hill Professional Essential site planning and design strategies, up-to-date with the latest sustainable development techniques Discover how to incorporate sound environmental considerations into traditional site design processes. Written by a licensed landscape architect with more than 20 years of professional experience, this authoritative guide combines established approaches to site planning with sustainable practices and increased environmental sensitivity. Fully revised and updated, Site Planning and Design Handbook, Second Edition discusses the latest standards and protocols-including LEED. The book features expanded coverage of green site design topics such as water conservation, energy efficiency, green building materials, site infrastructure, and brownfield restoration. This comprehensive resource addresses the challenges associated with site planning and design and lays the groundwork for success. Site Planning and Design Handbook, Second Edition explains how to: Integrate sustainability into site design Gather site data and perform site analysis Meet community standards and expectations Plan for pedestrians, traffic, parking, and open space Use grading techniques to minimize erosion and maximize site stability Implement low-impact stormwater management and sewage disposal methods Manage brownfield redevelopment Apply landscape ecology principles to site design Preserve historic landscapes and effectively utilize vegetation **Procedures and Protocols in the Neurocritical Care Unit** Springer This practical book covers neuro-critical care procedures performed in medical or surgical ICU and different procedures dedicated to acute neurological care. The book's format allows for quick decisions about care and protocols while treating neurologically injured patients. Divided into two sections, the first focuses on procedures. The outlines of these chapters include indication, technique, types of kits available, and challenges. The second section covers the protocols; these chapters feature flowcharts, drugs/device, doses of drugs, description of device, indication, evidence, and future prospects. This succinct guide will serve as a go-to reference for residents, fellows, intensivists, or any healthcare personnel within neuro-critical care unit.