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EQ02YV - MADILYNN AUGUSTUS

Physiotherapy is arriving at a critical point in its history. Since World War I, physiotherapy has been one of the largest allied health professions and the established provider of orthodox physical rehabilitation. But ageing populations of increasingly chronically ill people, a growing scepticism towards biomedicine and the changing economy of healthcare threaten physiotherapy's long-held status. Paradoxically, physiotherapy's affinity for treating the 'body-as-machine' has resulted in an almost complete inability to identify the roots of the profession's present problems, or define possible ways forward. Physiotherapists need to engage in critically informed theoretical discussion about the profession's past, present and future - to explore their practice from economic, philosophical, political and sociological perspectives. The End of Physiotherapy aims to explain how physiotherapy has arrived at this critical point in its history, and to point to a new future for the profession. The book draws on critical analyses of the historical and social conditions that have made present-day physiotherapy possible. Nicholls examines some of the key discourses that have had a positive impact on the profession in the past, but now threaten to derail it. This book makes it possible for physiotherapists to think otherwise about their profession and their day-to-day practice. It will be essential reading for scholars and students of physiotherapy, interprofessional and community rehabilitation, as well as appealing to those working in medical sociology, the medical humanities, medical history and health care policy.

The seven-volume set LNCS 12261, 12262, 12263, 12264, 12265, 12266, and 12267 constitutes the refereed proceedings of the 23rd International Conference on Medical Image Computing and Computer-Assisted Intervention, MICCAI 2020, held in Lima, Peru, in October 2020. The conference was held virtually due to the COVID-19 pandemic. The 542 revised full papers presented were carefully reviewed and selected from 1809 submissions in a double-blind review process. The papers are organized in the following topical sections: Part I: machine learning methodologies Part II: image reconstruction; prediction and diagnosis; cross-domain methods and reconstruction; domain adaptation; machine learning applications; generative adversarial networks Part III: CAI applications; image registration; instrumentation and surgical phase detection; navigation and visualization; ultrasound imaging; video image analysis Part IV: segmentation; shape models and landmark detection Part V: biological, optical, microscopic imaging; cell segmentation and stain normalization; histopathology image analysis; ophthalmology Part VI: angiography and vessel analysis; breast imaging; colonoscopy; dermatology; fetal imaging; heart and lung imaging; musculoskeletal imaging Part VI: brain development and atlases; DWI and tractography; functional brain networks; neuroimaging; positron emission tomography

Program Arduino with ease! Using clear, easy-to-follow examples, Programming Arduino: Getting Started with Sketches reveals the software side of Arduino and explains how to write well-crafted sketches using the modified C language of Arduino. No prior programming experience is required! The downloadable sample programs featured in the book can be used as-is or modified to suit your purposes. Understand Arduino hardware fundamentals Install the software, power it up, and upload your first sketch Learn C language basics Write functions in Arduino sketches Structure data using arrays and strings Use Arduino's digital and analog inputs and outputs in your programs Work with the Standard Arduino Library Write sketches that can store data Program LCD displays Use an Ethernet shield to enable Arduino to function as a web server Write your own Arduino libraries In December 2011, Arduino 1.0 was released. This changed a few things that have caused two of the sketches in this book to break. The change that has caused trouble is that the classes 'Server' and 'Client' have been renamed to 'EthernetServer' and 'EthernetClient' respectively. To fix this: Edit sketches 10-01 and 10-02 to replace all occurrences of the word 'Server' with 'EthernetServer' and all occurrences of 'Client' with 'EthernetClient'. Alternatively, you can download the modified sketches for 10-01 and 10-02 from here: <http://www.arduinoobook.com/arduino-1-0> Make Great Stuff! TAB, an imprint of McGraw-Hill Professional, is a leading publisher of DIY technology books for makers, hackers, and electronics hobbyists.

The book contains the latest developments in the field of life cycle assessment (LCA) and its application. It contains numerous research articles from leading German research institutes working towards the further development of the methodology. The book provides important insights for professionals working in the field of sustainability assessment, for researchers interested in the current state of the research of the methodology and its application as well as for advanced university students in different science and engineering fields.

This modern textbook offers an introduction to Quantum Mechanics as a theory that underlies the world around us, from atoms and molecules to materials, lasers, and other applications. The main features of the book are: Emphasis on the key principles with minimal mathematical formalism Demystifying discussions of the basic features of quantum systems, using dimensional analysis and order-of-magnitude estimates to develop intuition Comprehensive overview of the key concepts of quantum chemistry and the electronic structure of solids Extensive discussion of the basic processes and applications of light-matter interactions Online supplement with advanced theory, multiple-choice quizzes, etc.

This book examines the role of fermented foods on human gut health and offers a unique contribution to this rapidly growing area of study. Fermented foods have been consumed by humans for millennia. This method of food preservation provided early humans with beneficial bacteria that re-populated the gut microbiota upon consumption. However, novel methods of production and conservation of food have led to severed ties between the food that modern humans consume and the gut microbiota. As a consequence, there has been a documented increase in the prevalence of autoimmune diseases and obesity, which has been correlated to decreased diversity of gut microbes, while infectious disorders have decreased in the three past decades. With the intention of providing a thorough overview of the relationship between fermented foods, nutrition, and health, the editors have grouped the chapters into three thematic sections: food and their associated microbes, the oral microbiome, and the gut microbiome. After an intro-

duction dedicated to the environmental microbiome, Part I provides an overview of what is currently known about the microbes associated with different foods, and compares traditional forms of food preparation with current industrial techniques in terms of the potential loss of microbial diversity. The chapters in Part 2 explore the oral microbiota as a microbial gatekeeper and main contributor to the gut microbiota. Part 3 introduces beneficial modulators of the gut microbiome starting with the establishment of a healthy gut microbiota during infancy, and continuing with the role of probiotics and prebiotics in health preservation and the imbalances of the gut microbiota. In the final section the editors offer concluding remarks and provide a view of the future brought by the microbiome research revolution. This study is unique in its emphasis on the convergence of two very relevant fields of research: the field of studies on Lactic Acid Bacteria (LAB) and fermented foods, and microbiome research. The relationship between these fields, as presented by the research in this volume, demonstrates the intimate connection between fermented foods, the oral and gut microbiota, and human health. Although research has been done on the impact of diet on the gut microbiome there are no publications addressing the restorative role of food as microbe provider to the gut microbiota. This novel approach makes the edited volume a key resource for scientific researchers working in this field.

Quantile regression is gradually emerging as a unified statistical methodology for estimating models of conditional quantile functions. By complementing the exclusive focus of classical least squares regression on the conditional mean, quantile regression offers a systematic strategy for examining how covariates influence the location, scale and shape of the entire response distribution. This monograph is the first comprehensive treatment of the subject, encompassing models that are linear and nonlinear, parametric and nonparametric. The author has devoted more than 25 years of research to this topic. The methods in the analysis are illustrated with a variety of applications from economics, biology, ecology and finance. The treatment will find its core audiences in econometrics, statistics, and applied mathematics in addition to the disciplines cited above.

Those who fight monsters risk becoming monsters themselves. Darkness beckons. Will I answer? I am imprisoned by my mortal enemy - the Necrolord. I don't know if my friends are dead or alive. And there are more and more people and monsters wanting me dead. But not everything is at it seems. Through darkness, magic and madness, my world will change. Enemies may become allies, and those I once trusted may come to be my biggest enemies. My name is Kat Drummond, and I'm a monster hunter. Face the darkness in this action-packed and thrilling instalment of Kat Drummond's urban fantasy saga.

Chemical Engineering Design, Second Edition, deals with the application of chemical engineering principles to the design of chemical processes and equipment. Revised throughout, this edition has been specifically developed for the U.S. market. It provides the latest US codes and standards, including API, ASME and ISA design codes and ANSI standards. It contains new discussions of conceptual plant design, flowsheet development, and revamp design; extended coverage of capital cost estimation, process costing, and economics; and new chapters on equipment selection, reactor design, and solids handling processes. A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data, and Excel spreadsheet calculations, plus over 150 Patent References for downloading from the companion website. Extensive instructor resources, including 1170 lecture slides and a fully worked solutions manual are available to adopting instructors. This text is designed for chemical and biochemical engineering students (senior undergraduate year, plus appropriate for capstone design courses where taken, plus graduates) and lecturers/tutors, and professionals in industry (chemical process, biochemical, pharmaceutical, petrochemical sectors). New to this edition: Revised organization into Part I: Process Design, and Part II: Plant Design. The broad themes of Part I are flowsheet development, economic analysis, safety and environmental impact and optimization. Part II contains chapters on equipment design and selection that can be used as supplements to a lecture course or as essential references for students or practicing engineers working on design projects. New discussion of conceptual plant design, flowsheet development and revamp design Significantly increased coverage of capital cost estimation, process costing and economics New chapters on equipment selection, reactor design and solids handling processes New sections on fermentation, adsorption, membrane separations, ion exchange and chromatography Increased coverage of batch processing, food, pharmaceutical and biological processes All equipment chapters in Part II revised and updated with current information Updated throughout for latest US codes and standards, including API, ASME and ISA design codes and ANSI standards Additional worked examples and homework problems The most complete and up to date coverage of equipment selection 108 realistic commercial design projects from diverse industries A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data and Excel spreadsheet calculations plus over 150 Patent References, for downloading from the companion website Extensive instructor resources: 1170 lecture slides plus fully worked solutions manual available to adopting instructors

Timber construction is one of the most prevalent methods of constructing buildings in North America and an increasingly significant method of construction in Europe and the rest of the world. Timber Engineering deals not only with the structural aspects of timber construction, structural components, joints and systems based on solid timber and engineered wood products, but also material behaviour and properties on a wood element level. Produced by internationally renowned experts in the field, this book represents the state of the art in research on the understanding of the material behaviour of solid wood and engineered wood products. There is no comparable compendium currently available on the topic - the subjects represented include the most recent phenomena of timber engineering and the newest development of practice-related research. Grouped into three different sections, 'Basic properties of wood-based structural elements', 'Design aspects on timber structures' and 'Joints and structural assemblies', this book

focuses on key issues in the understanding of: timber as a modern engineered construction material with controlled and documented properties the background for design of structural systems based on timber and engineered wood products the background for structural design of joints in structural timber systems Furthermore, this invaluable book contains advanced teaching material for all technical schools and universities involved in timber engineering. It also provides an essential resource for timber engineering students and researchers, as well as practicing structural and civil engineers.

Store-operated calcium channels are found in most animal cells and regulate many cellular functions including cell division, growth, differentiation, and cell death. This volume provides a concise and informative overview of the principles of store-operated calcium entry and the key developments in the field from researchers who have led these advances. The overall goal of the volume is to provide interested students and investigators with sufficient information to enable a broad understanding of the progress and current excitement in the field. The volume contains a wealth of information that even experienced investigators in the field will find useful. The volume provides a comprehensive overview of the mechanisms and functions of store-operated calcium channels. Contributors are authoritative researchers who have produced important advances in the field. The volume is well-illustrated with cartoons and data to facilitate easy comprehension of the subject.

Annotation New edition of a reference that presents the values of properties typical for the most common alloy processing conditions, thus providing a starting point in the search for a suitable material that will allow, with proper use, all the necessary design limitations to be met (strength, toughness, corrosion resistance and electronic properties, etc.) The data is arranged alphabetically and contains information on the manufacturer, the properties of the alloy, and in some cases its use. The volume includes 32 tables that present such information as densities, chemical elements and symbols, physical constants, conversion factors, specification requirements, and compositions of various alloys and metals. Also contains a section on manufacturer listings with contact information. Edited by Frick, a professional engineering consultant. Annotation c. Book News, Inc., Portland, OR (booknews.com).

This groundbreaking volume explores the concept of self-censorship as it relates to individuals and societies and functions as a barrier to peace. Defining self-censorship as the act of intentionally and voluntarily withholding information from others in the absence of formal obstacles, the volumes introduces self-censorship as one of the socio-psychological mechanisms that prevent the free flow of information and thus obstruct proper functioning of democratic societies. Moreover it analyzes this socio-psychological phenomenon specifically in the context of intractable conflict, providing much evidence from the Israeli-Palestinian conflict. Moving from the micro to the macro level, the collected chapters put the individual as the focal unit of psychological analysis while embedding the individual in multiple levels of context including families, organizations, and societies. Following a firm conceptual explanation of self-censorship, a selection of both emerging and prominent scholars describe the ways in which self-censorship factors into families, organizations, education, academia, and other settings. Further chapters discuss self-censorship in military contexts, narratives of political violence, and the media. Finally, the volume concludes by looking at the ways in which harmful self-censorship in societies can be overcome, and explores the future of self-censorship research. In doing so, this volume solidifies self-censorship as an important phenomenon of social behavior with major individual and collective consequences, while stimulating exciting and significant new research possibilities in the social and behavioral sciences. Conceptually carving out a new area in peace psychology, *Self Censorship in Contexts of Peace and Conflict* will appeal to psychologists, sociologists, peace researchers, political scientists, practitioners, and all those with a wish to understand the personal and societal functioning of individuals in the real world.

This volume explores three trials conducted in Athens in the fourth century BCE; the defendants were all women charged with undertaking ritual activities, but much of the evidence remains a mystery. The author reveals how these trials provide a vivid glimpse of the socio-political environment of Athens during the early-mid fourth century BCE.

This encyclopedic work on Islam comprises English translations of all canonical ḥadīths, complete with their respective chains of transmission (isnāds). By conflating the variant versions of the same ḥadīth, the repetitiveness of its literature has been kept wherever possible to a minimum. The latest methods of isnād analysis, described in the general introduction, have been employed in an attempt to identify the person(s) responsible for each ḥadīth. The book is organized in the alphabetical order of those persons. These are the so-called 'common links'. Each of them is listed with the tradition(s) for the wording of which he can be held accountable, or with which he can at least be associated.

This book presents a broad overview of the current state of knowledge regarding the Red Sea, from its geological formation and oceanographic development to the environmental influences on its ecology and the changes it is experiencing due to the rapid development of its coastlines and role as

one of the world's major transport routes. The book gathers invited contributions from researchers with an interest in the geology, geophysics, oceanography and environment of the Red Sea, while also providing comprehensive new data and a complete review of the literature. It will be of interest not only to researchers actively studying the sea and its surroundings, but will also appeal to all those involved in planning and managing the Red Sea, its environment, its resources and the countries which rely on its existence.

Eat for your mental health and learn the fascinating science behind nutrition with this "must-read" guide from an expert psychiatrist (Amy Myers, MD). Did you know that blueberries can help you cope with the aftereffects of trauma? That salami can cause depression, or that boosting Vitamin D intake can help treat anxiety? When it comes to diet, most people's concerns involve weight loss, fitness, cardiac health, and longevity. But what we eat affects more than our bodies; it also affects our brains. And recent studies have shown that diet can have a profound impact on mental health conditions ranging from ADHD to depression, anxiety, sleep disorders, OCD, dementia and beyond. A triple threat in the food space, Dr. Uma Naidoo is a board-certified psychiatrist, nutrition specialist, and professionally trained chef. In *This Is Your Brain on Food*, she draws on cutting-edge research to explain the many ways in which food contributes to our mental health, and shows how a sound diet can help treat and prevent a wide range of psychological and cognitive health issues. Packed with fascinating science, actionable nutritional recommendations, and delicious, brain-healthy recipes, *This Is Your Brain on Food* is the go-to guide to optimizing your mental health with food.

This book provides researchers with widely used techniques for the study of virology, focusing on molecular biology and imaging to encourage mechanistic investigation of virus-host interactions. Chapters detail a broad range of methods from diagnosis, virus propagation, proteomics, haploid screening, lentiviral screening, virus entry, single molecule RNA imaging, correlative light and electron microscopy (CLEM), EM, light-sheet microscopy, biochemistry, viral transcription, physiological infection models, animal models, in vivo imaging, antigenic evolution, immunology to mathematical modelling. Reviews cover general influenza, clinical trials, both sides of the gain-of-function debate, and computational modelling. Written in the highly successful *Methods in Molecular Biology* series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Cutting-edge and thorough, *Influenza Virus: Methods and Protocols* aims to motivate experienced researchers and newcomers in the field and improve our overall understanding of influenza.

This book analyses the sustainability of membrane operations applied on an industrial scale, as well as that of those under investigation on lab/pilot scales, covering also the preparation of both polymeric and inorganic membranes. It presents reverse osmosis in desalination, membrane bioreactors for municipal wastewater treatment and pressure-driven industrial wastewater treatment in agrofood and textile fields as examples of industrial membrane operations. Regarding the membrane processes still on a lab/pilot scale, the analysis includes membrane operations for the recovery of valuable products from wastewater streams, for the removal of toxic compounds from water/wastewater, and for zero liquid discharge approaches in desalination. The book offers a useful guide for scientists and engineers working in various fields, including membrane technology, separation, desalination, and wastewater treatment. Alberto Figoli and Alessandra Criscuoli are both Senior Researchers at the Institute on Membrane Technology (ITM-CNR), Italy.

This book examines statistical methods and models used in the fields of global health and epidemiology. It includes methods such as innovative probability sampling, data harmonization and encryption, and advanced descriptive, analytical and monitoring methods. Program codes using R are included as well as real data examples. Contemporary global health and epidemiology involves a myriad of medical and health challenges, including inequality of treatment, the HIV/AIDS epidemic and its subsequent control, the flu, cancer, tobacco control, drug use, and environmental pollution. In addition to its vast scales and telescopic perspective; addressing global health concerns often involves examining resource-limited populations with large geographic, socioeconomic diversities. Therefore, advancing global health requires new epidemiological design, new data, and new methods for sampling, data processing, and statistical analysis. This book provides global health researchers with methods that will enable access to and utilization of existing data. Featuring contributions from both epidemiological and biostatistical scholars, this book is a practical resource for researchers, practitioners, and students in solving global health problems in research, education, training, and consultation.

Water supply and waste systems (buildings), Water supply (buildings), Water mains, External, Potable water, Reservoirs, Installation, Safety measures, Pipelines, Design

This report includes rationale for the research, a brief outline of the methodology and the summarised data collected from the project. The results are presented in a format that can be used both by irrigators, the irrigation industry, as well as the Department of Water, Land and Biodiversity Conservation as part of the licence conversion process.