

Electrical Principles Hampson

The best-selling introduction to evidence-based medicine In a clear and engaging style, How to Read a Paper demystifies evidence-based medicine and explains how to critically appraise published research and also put the findings into practice. An ideal introduction to evidence-based medicine, How to Read a Paper explains what to look for in different types of

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papers and how best to evaluate the literature and then implement the findings in an evidence-based, patient-centred way. Helpful checklist summaries of the key points in each chapter provide a useful framework for applying the principles of evidence-based medicine in everyday practice. This fifth edition has been fully updated with new examples and references to reflect recent developments and current practice. It

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also includes two new chapters on applying evidence-based medicine with patients and on the common criticisms of evidence-based medicine and responses. How to Read a Paper is a standard text for medical and nursing schools as well as a friendly guide for everyone wanting to teach or learn the basics of evidence-based medicine.

The Gas Turbine Engineering Handbook has been the standard for engineers involved in the design, selection, and

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operation of gas turbines. This revision includes new case histories, the latest techniques, and new designs to comply with recently passed legislation. By keeping the book up to date with new, emerging topics, Boyce ensures that this book will remain the standard and most widely used book in this field. The new Third Edition of the Gas Turbine Engineering Hand Book updates the book to cover the new generation of Advanced gas Turbines. It

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examines the benefit and some of the major problems that have been encountered by these new turbines. The book keeps abreast of the environmental changes and the industries answer to these new regulations. A new chapter on case histories has been added to enable the engineer in the field to keep abreast of problems that are being encountered and the solutions that have resulted in solving them. Comprehensive treatment of Gas Turbines from Design

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to Operation and Maintenance. In depth treatment of Compressors with emphasis on surge, rotating stall, and choke; Combustors with emphasis on Dry Low NOx Combustors; and Turbines with emphasis on Metallurgy and new cooling schemes. An excellent introductory book for the student and field engineers A special maintenance section dealing with the advanced gas turbines, and special diagnostic charts have been provided that will enable the reader to

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troubleshoot problems he encounters in the field The third edition consists of many Case Histories of Gas Turbine problems. This should enable the field engineer to avoid some of these same generic problems

H F W Taylor was for many years Professor of Inorganic Chemistry at he University of Aberdeen, Scotland. Since 1948, his main research interest has been the chemistry of cement. His early work laid the foundations of our

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understanding of the structure at the nanometre level of C-S-H, the principal product formed when cement is mixed with water, and the one mainly responsible for its hardening.

Subsequent studies took him into many additional aspects of the chemistry and materials science of cement and concrete. His work has been recognized by Fellowships and by other honours and awards from many scientific societies in the UK, USA and elsewhere. This

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second edition of Cement chemistry addresses the chemistry and materials science of the principal silicate and aluminate cements used in building and Civil engineering. Emphasis throughout is on the underlying science. The book deals more specifically with the chemistry of Portland cement manufacture and the nature of the resulting product, the processes that occur when this product is mixed with water, the nature of the hardened

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material, the chemistry of other types of hydraulic cement, and chemical and microstructural aspects of concrete, including processes that affect its durability. Since the first edition of this book was published in 1990, research throughout the world has greatly augmented our knowledge in all of these areas. The present edition has been updated and revised to take account of these advances. The reader will acquire a solid understanding of

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the subject and will be better equipped to deal with the problems and pitfalls that can arise in engineering practice as a result of inadequate understanding of the relevant chemistry. It will serve both as an introduction to those entering the subject for the first time and as a guide to the latest developments for those already experienced in the field.

A global exploration of coal geology, from production and use to chemical

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properties and coal petrology Coal Geology, 3rd Edition, offers a revised and updated edition of this popular book which provides a comprehensive overview of the field of coal geology including coal geophysics, hydrogeology and mining. Also covered in this volume are fully revised coverage of resource and reserve definitions, equipment and recording techniques together with the use of coal as an alternative energy source as well as environmental

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implications. This third edition provides a textbook ideally suited to anyone studying, researching or working in the field of coal geology, geotechnical engineering and environmental science. Fills the gap between academic aspects of coal geology and the practical role of geology in the coal industry Examines sedimentological and stratigraphical geology, together with mining, geophysics, hydrogeology, environmental

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*issues and coal marketing Defines
global coal resource classifications
and methods of calculation Addresses
the alternative uses of coal as a
source of energy Covers a global
approach to coal producers and
consumers*

*Electrochemical Impedance Spectroscopy
and its Applications*

fMRI Neurofeedback

Building Technology

The Sound Reinforcement Handbook

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*Low-Temperature Experimental Techniques
Principles and Practice of Equine
Sports Medicine*

Supports learning and delivery in: - UEE30811 Certificate III in Electrotechnology Electrician - UEE22011 Certificate II in Electrotechnology (Career Start) Phillips, *Electrical Principles* uses a student-friendly writing style, a range of fully worked examples and full-colour illustrations to make the basic principles easier to understand. Covering the core knowledge components of the current UEE11 Electrotechnology Training Package and referencing the new AS/NZS 3000:2018 Wiring Rules, this textbook is structured, written and illustrated to present the information in a way that is accessible to students

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With a new focus on sustainable energy, brushless DC motors and the inclusion of student ancillaries, as well as structuring more closely to the knowledge and skills requirements for each competency unit covered, Electrical Principles, 4e is the ideal text for students enrolled in Certificate II and III

Electrotechnology qualifications. With more than 800 diagrams, hundreds of worked examples, practice questions and self-check questions, this edition is the most up-to-date text in the market. The writing style is aimed at Certificate III students while retaining the terminology typically used in the Electrical Trades. Additionally, the technical content does not break into a level above that of Certificate III. At all times the book uses illustrations integrated with the text to explain a topic.

Electrical Trade Principles is a theoretical text that addresses

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the three key qualifications in the UE11 Electrotechnology Training Package; Certificate II in Electrotechnology (Career Start), Certificate III in Electrotechnology Electrician; and Certificate IV in Electrotechnology – Systems Electrician. The text helps students progress through the course and satisfactorily complete the Capstone Assessment, making them eligible to apply for an electrician's licence. Premium online teaching and learning tools are available on the MindTap platform. Learn more about the online tools cengage.com.au/learning-solutions

The Handbook of Psychophysiology has been the authoritative resource for more than a quarter of a century. Since the third edition was published a decade ago, the field of psychophysiological science has seen significant advances, both

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in traditional measures such as electroencephalography, event-related brain potentials, and cardiovascular assessments, and in novel approaches and methods in behavioural epigenetics, neuroimaging, psychoneuroimmunology, psychoneuroendocrinology, neuropsychology, behavioural genetics, connectivity analyses, and non-contact sensors. At the same time, a thoroughgoing interdisciplinary focus has emerged as essential to scientific progress. Emphasizing the need for multiple measures, careful experimental design, and logical inference, the fourth edition of the Handbook provides updated and expanded coverage of approaches, methods, and analyses in the field. With state-of-the-art reviews of research in topical areas such as stress, emotion, development, language, psychopathology, and behavioural medicine, the Handbook

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remains the essential reference for students and scientists in the behavioural, cognitive, and biological sciences.

The definitive text/reference for students, researchers and practicing engineers This book provides comprehensive coverage on refrigeration systems and applications, ranging from the fundamental principles of thermodynamics to food cooling applications for a wide range of sectoral utilizations. Energy and exergy analyses as well as performance assessment through energy and exergy efficiencies and energetic and exergetic coefficients of performance are explored, and numerous analysis techniques, models, correlations and procedures are introduced with examples and case studies. There are specific sections allocated to environmental impact assessment and sustainable development studies. Also featured

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are discussions of important recent developments in the field, including those stemming from the author's pioneering research. Refrigeration is a uniquely positioned multi-disciplinary field encompassing mechanical, chemical, industrial and food engineering, as well as chemistry. Its wide-ranging applications mean that the industry plays a key role in national and international economies. And it continues to be an area of active research, much of it focusing on making the technology as environmentally friendly and sustainable as possible without compromising cost efficiency and effectiveness. This substantially updated and revised edition of the classic text/reference now features two new chapters devoted to renewable-energy-based integrated refrigeration systems and environmental impact/sustainability assessment. All examples

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and chapter-end problems have been updated as have conversion factors and the thermophysical properties of an array of materials. Provides a solid foundation in the fundamental principles and the practical applications of refrigeration technologies Examines fundamental aspects of thermodynamics, refrigerants, as well as energy and exergy analyses and energy and exergy based performance assessment criteria and approaches Introduces environmental impact assessment methods and sustainability evaluation of refrigeration systems and applications Covers basic and advanced (and hence integrated) refrigeration cycles and systems, as well as a range of novel applications Discusses crucial industrial, technical and operational problems, as well as new performance improvement techniques and tools for

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better design and analysis Features clear explanations, numerous chapter-end problems and worked-out examples Refrigeration Systems and Applications, Third Edition is an indispensable working resource for researchers and practitioners in the areas of Refrigeration and Air Conditioning. It is also an ideal textbook for graduate and senior undergraduate students in mechanical, chemical, biochemical, industrial and food engineering disciplines.

Electrical Principles

Electrical Principles for Electrical Trades, 8th Edition

Electrical Trade Practices 2nd edition

Animal Physiotherapy

The Basics of Evidence-Based Medicine

Fundamentals and Applications

This thorough revision and update of the popular second edition contains everything the student needs to know about the psychology of language: how we understand, produce, and store language.

Cryogenics is the study of low temperature interactions - temperatures well below those existing in the natural universe. The book covers a large spectrum of experimental cases, including basic vacuum techniques, indispensable in cryogenics. Guidance in solving experimental problems and numerous

numerical examples are given, as are examples of the applications of cryogenics in such areas as underground detectors and space applications. Updated tables of low-temperature data on materials are also presented, and the book is supplemented with a rich bibliography. Researchers (graduate and above) in the fields of physics, engineering and chemistry with an interest in the technology and applications of low-temperature measurements, will find this book invaluable. Experiments described in

technical detail Description of newest cryogenic apparatus Applications in multidisciplinary areas Data on cryogenic properties of new materials Current reference review

Electrical Trade Principles A Practical Approach Electrotechnology Practice Cengage AU

In addition it also examines the complex morphology, cultivation, harvesting, and processing of cannabis and the ways in which the plant's chemical composition can be

controlled. As well as offering a raft of scientific information there is extensive coverage of cannabinoid-based medicines. Helping readers to identify and evaluate their benefits, chapters explore pharmacological actions and the effects that seem to underlie approved therapeutic uses, how they are currently used to treat certain disorders, and the ever-growing number of wide-ranging potential clinical applications. There is also coverage of both the legal and illegal sources of cannabis, including 'coffee shops' and

*'cannabis dispensaries'. The complex issue of
'recreational cannabis' is also tackled.
Includes Sections on Sustainable Energy
Technologies, Telecommunications and Maths
Demystified
Cement Chemistry
Reinforcement Learning, second edition
Electrical Trade Principles Supplement
The Art of Cryogenics
Saving Proxima
**ENGINEERING DESIGN: AN INTRODUCTION, Second
Edition, features an innovative instructional***

approach emphasizing projects and exploration as learning tools. This engaging text provides an overview of the basic engineering principles that shape our modern world, covering key concepts within a flexible, two-part format. Part I describes the process of engineering and technology product design, while Part II helps students develop specific skill sets needed to understand and participate in the process. Opportunities to experiment and learn abound, with projects ranging from technical drawing to designing electrical systems--and more. With a strong emphasis on project-based learning, the text

is an ideal resource for programs using the innovative Project Lead the Way curriculum to prepare students for success in engineering careers. The text's broad scope and sound coverage of essential concepts and techniques also make it a perfect addition to any engineering design course. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Summary: "A comprehensive, practical text providing readers with the fundamental skills and basic knowledge for the electrical trades."--Provided by publisher.

(Yamaha Products). Sound reinforcement is the use of audio amplification systems. This book is the first and only book of its kind to cover all aspects of designing and using such systems for public address and musical performance. The book features information on both the audio theory involved and the practical applications of that theory, explaining everything from microphones to loudspeakers. This revised edition features almost 40 new pages and is even easier to follow with the addition of an index and a simplified page and chapter numbering system. New topics covered include: MIDI,

Synchronization, and an Appendix on Logarithms. 416 Pages.

This textbook is intended for a one-semester course in corrosion science at the graduate or advanced undergraduate level. The approach is that of a physical chemist or materials scientist, and the text is geared toward students of chemistry, materials science, and engineering. This textbook should also be useful to practicing corrosion engineers or materials engineers who wish to enhance their understanding of the fundamental principles of corrosion science. It is assumed that the student or reader does not have a background

in electrochemistry. However, the student or reader should have taken at least an undergraduate course in materials science or physical chemistry. More material is presented in the textbook than can be covered in a one-semester course, so the book is intended for both the classroom and as a source book for further use. This book grew out of classroom lectures which the author presented between 1982 and the present while a professorial lecturer at George Washington University, Washington, DC, where he organized and taught a graduate course on "Environmental Effects on Materials."

Additional material has been provided by over 30 years of experience in corrosion research, largely at the Naval Research Laboratory, Washington, DC and also at the Bethlehem Steel Company, Bethlehem, PA and as a Robert A. Welch Postdoctoral Fellow at the University of Texas. The text emphasizes basic principles of corrosion science which underpin extensions to practice.

Introduction to Corrosion Science

Cold Plasma in Food and Agriculture

A Handbook of Research in Biomimetics and Biohybrid Systems

Electrical Trade Principles

Psychological Management of Stroke A Systems Approach

fMRI Neurofeedback provides a perspective on how the field of functional magnetic resonance imaging (fMRI) neurofeedback has evolved, an introduction to state-of-the-art methods used for fMRI neurofeedback, a review of published neuroscientific and clinical applications, and a discussion of relevant ethical considerations. It gives a view of the ongoing research

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challenges throughout and provides guidance for researchers new to the field on the practical implementation and design of fMRI neurofeedback protocols. This book is designed to be accessible to all scientists and clinicians interested in conducting fMRI neurofeedback research, addressing the variety of different knowledge gaps that readers may have given their varied backgrounds and avoiding field-specific jargon. The book, therefore,

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will be suitable for engineers, computer scientists, neuroscientists, psychologists, and physicians working in fMRI neurofeedback. • Provides a reference on fMRI neurofeedback covering history, methods, mechanisms, clinical applications, and basic research, as well as ethical considerations • Offers contributions from international experts—leading research groups are represented, including from Europe, Japan, Israel,

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and the United States • Includes coverage of data analytic methods, study design, neuroscience mechanisms, and clinical considerations • Presents a perspective on future translational development

This book presents a complete overview of the powerful but often misused technique of Electrochemical Impedance Spectroscopy (EIS). The book presents a systematic and complete overview of EIS. The book carefully describes EIS

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and its application in studies of electrocatalytic reactions and other electrochemical processes of practical interest. This book is directed towards graduate students and researchers in Electrochemistry. Concepts are illustrated through detailed graphics and numerous examples. The book also includes practice problems. Additional materials and solutions are available online.

Showing how to maximize performance in

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horses, The Athletic Horse: Principles and Practice of Equine Sports Medicine, 2nd Edition describes sports training regimens and how to reduce musculoskeletal injuries. Practical coverage addresses the anatomical and physiological basis of equine exercise and performance, centering on evaluation, imaging, pharmacology, and training recommendations for sports such as racing and show jumping. Now in full color, this edition includes new

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rehabilitation techniques, the latest imaging techniques, and the best methods for equine transportation.

Written by expert educators Dr. David Hodgson, Dr. Catherine McGowan, and Dr. Kenneth McKeever, with a panel of highly qualified contributing authors. Expert international contributors provide cutting-edge equine information from the top countries in performance-horse research: the U.S., Australia, U.K., South Africa, and Canada. The

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latest nutritional guidelines maximize the performance of the equine athlete. Extensive reference lists at the end of each chapter provide up-to-date resources for further research and study. NEW full-color photographs depict external clinical signs, allowing more accurate clinical recognition. NEW and improved imaging techniques maximize your ability to assess equine performance. UPDATED drug information is presented as it applies

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to treatment and to new regulations for drug use in the equine athlete. NEW advances in methods of transporting equine athletes ensure that the amount of stress on the athlete is kept to a minimum. NEW rehabilitation techniques help to prepare the equine athlete for a return to the job. Two NEW authors, Dr. Catherine McGowan and Dr. Kenneth McKeever, are highly recognized experts in the field.

This book offers a student friendly

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review of recent research in the application of cognitive methods, theories and models to real-world scenarios.

From Data to Theory

Assessment, Treatment and Rehabilitation of Animals

Electrical Wiring Practice

Projects in Computing and Information Systems

Electrical Trade Principles 5th Edition

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The significantly expanded and updated new edition of a widely used text on reinforcement learning, one of the most active research areas in artificial intelligence. Reinforcement learning, one of the most active research areas in artificial intelligence, is a computational approach to learning whereby an agent tries to maximize the total amount of reward it receives while interacting with a complex, uncertain environment. In Reinforcement Learning, Richard Sutton and Andrew Barto provide a clear and simple account of the field's key ideas and algorithms. This second edition has been significantly expanded and updated, presenting new topics and updating coverage of other topics. Like the first edition, this second edition focuses on core online learning algorithms, with the more mathematical material set off in

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shaded boxes. Part I covers as much of reinforcement learning as possible without going beyond the tabular case for which exact solutions can be found. Many algorithms presented in this part are new to the second edition, including UCB, Expected Sarsa, and Double Learning. Part II extends these ideas to function approximation, with new sections on such topics as artificial neural networks and the Fourier basis, and offers expanded treatment of off-policy learning and policy-gradient methods. Part III has new chapters on reinforcement learning's relationships to psychology and neuroscience, as well as an updated case-studies chapter including AlphaGo and AlphaGo Zero, Atari game playing, and IBM Watson's wagering strategy. The final chapter discusses the future societal impacts of reinforcement

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learning.

This textbook describes the biomechanics of bone, cartilage, tendons and ligaments. It is rigorous in its approach to the mechanical properties of the skeleton yet it does not neglect the biological properties of skeletal tissue or require mathematics beyond calculus. Time is taken to introduce basic mechanical and biological concepts, and the approaches used for some of the engineering analyses are purposefully limited. The book is an effective bridge between engineering, veterinary, biological and medical disciplines and will be welcomed by students and researchers in biomechanics, orthopedics, physical anthropology, zoology and veterinary science. This book also: Maximizes reader insights into the mechanical properties of bone, fatigue and

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fracture resistance of bone and mechanical adaptability of the skeleton Illustrates synovial joint mechanics and mechanical properties of ligaments and tendons in an easy-to-understand way Provides exercises at the end of each chapter

Electrotechnology Practice is a practical text that accompanies Hampson/Hanssen's theoretical Electrical Trade Principles. It covers essential units of competencies in the two key qualifications in the UEE Electrotechnology Training Package: - Certificate II in Electrotechnology (Career Start) - Certificate III in Electrotechnology Electrician Aligned with the latest Australian and New Zealand standards, the text references the Wiring Rules (AS/NZS 3000:2018) and follows the uniform structure and system of delivery as recommended by the nationally accredited vocational

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education and training authorities. More than 1000 illustrations convey to the learner various concepts and real-world aspects of electrical practices, a range of fully worked examples and review questions support student learning, while assessment-style worksheets support the volume of assessment. Electrotechnology Practice has strong coverage of the electives for Cert II and Cert III, preparing students to eligibly sit for the Capstone Assessment or the Licenced Electrician's Assessment (LEA). as a mandatory requirement to earn an Electrician's Licence. Premium online teaching and learning tools are available on the MindTap platform. An essential guide to designing, conducting, and analyzing event-related potential (ERP) experiments, completely updated for this edition. The event-related potential (ERP)

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technique, in which neural responses to specific events are extracted from the EEG, provides a powerful noninvasive tool for exploring the human brain. This volume describes practical methods for ERP research along with the underlying theoretical rationale. It offers researchers and students an essential guide to designing, conducting, and analyzing ERP experiments. This second edition has been completely updated, with additional material, new chapters, and more accessible explanations. Freely available supplementary material, including several online-only chapters, offer expanded or advanced treatment of selected topics. The first half of the book presents essential background information, describing the origins of ERPs, the nature of ERP components, and the design of ERP experiments. The

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second half of the book offers a detailed treatment of the main steps involved in conducting ERP experiments, covering such topics as recording the EEG, filtering the EEG and ERP waveforms, and quantifying amplitudes and latencies. Throughout, the emphasis is on rigorous experimental design and relatively simple analyses. New material in the second edition includes entire chapters devoted to components, artifacts, measuring amplitudes and latencies, and statistical analysis; updated coverage of recording technologies; concrete examples of experimental design; and many more figures. Online chapters cover such topics as overlap, localization, writing and reviewing ERP papers, and setting up and running an ERP lab.

Gas Turbine Engineering Handbook

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A Practical Approach

Postharvest Handling

Engineering Design: An Introduction

Electrotechnology Practice

An Introduction

A thoroughly updated edition of this essential reference guide for physiotherapists and physical therapists, looking to apply the proven benefits of physiotherapy to the treatment of companion and performance animals. Seven new chapters provide greatly expanded coverage of practical treatment and rehabilitation Includes reviews of different

physiotherapy techniques, drawing on both human and animal literature Discusses approaches in small animal medicine as well as for elite equine athletes Provides applied evidence-based clinical reasoning model, with case examples Now in full colour with many more illustrations

Focusing on applied and clinical examples, the Second Edition of PRINCIPLES OF NEUROPSYCHOLOGY is an exciting and dynamic approach to neuropsychology that should inspire both students and teachers. This progressive and accessible text teaches brain function in a clear

and interesting manner by providing the most recent studies and research available in this ever-developing field. Applying the underlying thesis that all interactions in daily life, whether adaptive or maladaptive, can be explained neuropsychologically, the authors emphasize five specific ideas: human neuropsychology-both experimental and clinical, integration of theory and research, coverage of the relationship between neuroscience and behavioral function, real-life examples, and the presentation of didactic aids. Integrating these themes with the most up-to-

date research provides all readers-whether or not they have had previous exposure to the field-with the most current and accessible text available.

Postharvest Handling: A Systems Approach introduces a new concept in the handling of fresh fruits and vegetable. Traditional treatments have been either physiologically based with an emphasis on biological tissue or technologically based with an emphasis on storage and handling. This book integrates all processes from production practices through consumer consumption with an emphasis on understanding market forces and

providing fresh product that meets consumer expectations. Postharvest physiologists and technologists across the disciplines of agricultural economics, agricultural engineering, food science and horticulture along with handlers of minimally-processed products within the fresh produce fruit and vegetable processing industries will find this to be an invaluable source of information. Uses a systems approach that provides a unique perspective on the handling of fresh fruits and vegetables Designed with the applied perspective to complement the more basic perspectives

provided in other treatments Provides the integrated, interdisciplinary perspective needed in research to improve the quality of fresh and minimally processed products Emphasizes that the design of handling systems should be market-driven rather than concentrating on narrow specifics

The year is 2072. At the lunar farside radio observatory, an old school radio broadcast is detected, similar to those broadcast on Earth in the 1940s and early 1950s, but in an unknown language, coming from an impossible source, and

originating at an equally impossible location—Proxima Centauri. While the nations of Earth debate making First Contact, they learn that the Proximans are facing an extinction-level disaster, forcing a decision: Will Earth send a ship on a multiyear trip to provide aid? Interstellar travel is not easy, and by traveling at the speeds required to arrive before disaster strikes at Proxima, humans will learn firsthand the effects of Einstein's Special Relativity and be forced to ponder the ultimate of questions of "Are we alone in the universe?" and "What does it mean to be

human?" At the publisher's request, this title is sold without DRM (Digital Rights Management). About Travis S. Taylor: "[E]xplodes with inventive action."—Publishers Weekly on Travis S. Taylor's The Quantum Connection "[Warp Speed] reads like Doc Smith writing Robert Ludlum . . . You won't want to put it down."—John Ringo

An Introduction to Applied Cognitive Psychology
Coal Geology
Mechanical and Electrical Systems
The Athletic Horse - E-Book
Skeletal Tissue Mechanics

Living Machines

This book is the essential guide for any student undertaking a computing/IS project, and will give you everything you need to achieve outstanding results.

Undertaking a project is a key component of nearly all computing/information systems degree programmes at both undergraduate and postgraduate levels. Projects in Computing and Information Systems covers the four key aspects of project

work (planning, conducting, presenting and taking the project further) in chronological fashion, and provides the reader with the skills to excel. The full text downloaded to your computer With eBooks you can: search for key concepts, words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf (available as a free download), available online and also

via the iPad and Android apps. Upon purchase, you'll gain instant access to this eBook. Time limit The eBooks products do not have an expiry date. You will continue to access your digital ebook products whilst you have your Bookshelf installed.

Psychological Management of Stroke presents a review and synthesis of the current theory and data relating to the assessment, treatment, and psychological aspects of stroke. Provides

comprehensive reviews of evidence based practice relating to stroke Written by clinical psychologists working in stroke services Covers a broad range of psychological aspects, including fitness to drive, decision making, prevention of stroke, and involvement of carers and families Reviews and synthesizes new data across a wide range of areas relevant to stroke and the assessment, treatment, and care of stroke survivors and their families Represents a novel

approach to the application of psychological theory and principles in the stroke field

Contemporary research in the field of robotics attempts to harness the versatility and sustainability of living organisms. By exploiting those natural principles, scientists hope to render a renewable, adaptable, and robust class of technology that can facilitate self-repairing, social, and moral--even conscious--machines. This is the realm of

robotics that scientists call "the living machine." Living Machines can be divided into two entities-biomimetic systems, those that harness the principles discovered in nature and embody them in new artifacts, and biohybrid systems, which couple biological entities with synthetic ones. Living Machines: A handbook of research in biomimetic and biohybrid systems surveys this flourishing area of research. It captures the current state of play and

points to the opportunities ahead, addressing such fields as self-organization and co-operativity, biologically-inspired active materials, self-assembly and self-repair, learning, memory, control architectures and self-regulation, locomotion in air, on land or in water, perception, cognition, control, and communication. In all of these areas, the potential of biomimetics is shown through the construction of a wide range of different biomimetic devices and

animal-like robots. Biohybrid systems is a relatively new field, with exciting and largely unknown potential, but one that is likely to shape the future of humanity. Chapters outline current research in areas including brain-machine interfaces-where neurons are connected to microscopic sensors and actuators-and various forms of intelligent prostheses from sensory devices like artificial retinas, to life-like artificial limbs, brain implants, and virtual reality-based

rehabilitation approaches. The handbook concludes by exploring the impact living machine technology will have on both society and the individual, by forcing human beings to question how we see and understand ourselves. With contributions from leading researchers drawing on ideas from science, engineering, and the humanities, this handbook will appeal to both undergraduate and postgraduate students of biomimetic and biohybrid

technologies. Researchers in the areas of computational modeling and engineering, including artificial intelligence, machine learning, artificial life, biorobotics, neurorobotics, and human-machine interfaces, will find Living Machines an invaluable resource. Cold Plasma in Food and Agriculture: Fundamentals and Applications is an essential reference offering a broad perspective on a new, exciting, and growing field for the food industry.

Written for researchers, industry personnel, and students interested in nonthermal food technology, this reference will lay the groundwork of plasma physics, chemistry, and technology, and their biological applications. Food scientists and food engineers interested in understanding the theory and application of nonthermal plasma for food will find this book valuable because it provides a roadmap for future developments in this emerging

field. This reference is also useful for biologists, chemists, and physicists who wish to understand the fundamentals of plasma physics, chemistry, and technology and their biological interactions through applying novel plasma sources to food and other sensitive biomaterials. Examines the topic of cold plasma technology for food applications Demonstrates state-of-the-art developments in plasma technology and potential solutions to improve food

safety and quality Presents a solid introduction for readers on the topics of plasma physics and chemistry that are required to understand biological applications for foods Serves as a roadmap for future developments for food scientists, food engineers, and biologists, chemists, and physicists working in this emerging field

How to Read a Paper

The Psychology of Language

Refrigeration Systems and Applications

Rhythms of the Brain A Student's Guide Handbook of Psychophysiology

ELECTROTECHNOLOGY PRACTICE, 2E provides students with the basic practical skills and knowledge needed to work in the electrical trades. The text will support a student's self-paced learning in the classroom, at work, or during self-study.

Written to the core practical units of competency from the UEE11 Electrotechnology Training Package, Electrical Trade Practices 2e by Berry, Cahill and Chadwick provides a practical yet comprehensive

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companion text, covering the practical units within the UEE30811 Certificate III in the Electrotechnology Electrician qualification. Electrical Trade Practices is the practical volume to accompany Phillips, Electrical Principles.

This book provides eloquent support for the idea that spontaneous neuron activity, far from being mere noise, is actually the source of our cognitive abilities. In a sequence of "cycles," György Buzsáki guides the reader from the physics of oscillations through neuronal assembly organization to complex cognitive processing and memory storage. His clear, fluid writing-accessible to any reader with some scientific knowledge-is

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supplemented by extensive footnotes and references that make it just as gratifying and instructive a read for the specialist. The coherent view of a single author who has been at the forefront of research in this exciting field, this volume is essential reading for anyone interested in our rapidly evolving understanding of the brain.

Customary International Humanitarian Law, Volume I: Rules is a comprehensive analysis of the customary rules of international humanitarian law applicable in international and non-international armed conflicts. In the absence of ratifications of important treaties in this area, this is clearly a publication of major importance,

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carried out at the express request of the international community. In so doing, this study identifies the common core of international humanitarian law binding on all parties to all armed conflicts.

An Introduction to the Event-Related Potential
Technique, second edition

Customary International Humanitarian Law

Handbook of Cannabis

Principles of Neuropsychology