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The research results presented in this book span the quest of Cape Kingdom Nutraceuticals, Prof. Patrick Bouic and Prof. Barbara Huisamen to scientifically validate the health promoting properties of an aqueous extract of the plant *Agathosma*. To accomplish this, they made use of both in vitro and in vivo models to understand and underscore the anecdotal information of the benefits of this product. Cell based studies highlighted anti-inflammatory and anti-diabetic effects while animal-based studies were utilized to confirm the anti-diabetic effects whilst further elaborating on anti-obesity properties. In addition, technology aimed at small animals were used to follow blood pressure to demonstrate anti-hypertensive effects while ex vivo perfused hearts were studied to show that this extract also protected the heart against an ischaemic incident. In view of the current pandemic of obesity and non-communicable diseases, the research results presented in this book will be of special interest to the scientific community and health practitioners interested in cardiometabolic diseases and nutraceuticals as an alternative treatment option. In view of the failure of many pharmaceuticals to curb non-communicable diseases, these results are deemed of high importance.

In recent years, there has been steady progress in the research of electrical impedance tomography (EIT), leading to important developments. These developments have excited interest in practitioners and researchers from a broad range of disciplines, including mathematicians devoted to uniqueness proofs and inverse problems, physicists dealing with bioimpedance, electronic engineers involved in developing and extending its applications, and clinicians wishing to take advantage of this powerful new imaging method. With

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contributions from leading international researchers, *Electrical Impedance Tomography: Methods, History and Applications* provides an up-to-date review of the progress of EIT, the present state of knowledge, and a look at future advances and applications. Divided into four parts, the book presents an interdisciplinary approach. The first part discusses reconstruction algorithms while the second part describes the aspects of EIT instrumentation, including frequencies and electrodes. The third part features various EIT studies, such as breast cancer screening and artificial ventilation in intensive care units. The final part surveys new developments in magnetic induction tomography and magnetic resonance EIT (MREIT) as well as offers insight into three of the most productive and longstanding EIT research groups. The book also includes two nontechnical appendices that provide a brief and simple introduction to bioimpedance and the methods of EIT. Written in a style accessible to all related backgrounds, this reference will be helpful in establishing new methods and experiments of EIT, hopefully leading to radical breakthroughs in mainstream clinical practice.

The modernization of industrial power systems has been stifled by industry's acceptance of extremely outdated practices. Industry is hesitant to depart from power system design practices influenced by the economic concerns and technology of the post World War II period. In order to break free of outdated techniques and ensure product quality and continuity of operations, engineers must apply novel techniques to plan, design, and implement electrical power systems. Based on the author's 40 years of experience in Industry, *Industrial Power Systems* illustrates the importance of reliable power systems and provides engineers the tools to plan, design, and implement one. Using materials from IEEE courses developed for practicing engineers, the book covers relevant engineering features and modern design

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procedures, including power system studies, grounding, instrument transformers, and medium-voltage motors. The author provides a number of practical tables, including IEEE and European standards, and design principles for industrial applications. Long overdue, *Industrial Power Systems* provides power engineers with a blueprint for designing electrical systems that will provide continuously available electric power at the quality and quantity needed to maintain operations and standards of production.

Nuclear Medicine is a diagnostic modality which aims to image and in some cases quantify physiological processes in the body to highlight disease or injury. Within nuclear medicine, over the past few decades, major technological changes have occurred and concomitantly changes in the knowledge and skills required have had to evolve. One of the most significant technological changes has been the fusion of imaging technologies, to create hybrid systems such as SPECT/CT, PET/CT and PET/MR. With these changes in mind, *Practical SPECT/CT in Nuclear Medicine* provides a handy and informative guide to the purchase, clinical implementation and routine use of a SPECT/CT scanner. *Practical SPECT/CT in Nuclear Medicine* will be a valuable resource for all personnel working in nuclear medicine and it will be of particular value to trainees.

This second edition has been fully updated to provide radiologists with all the recent technological advances in diagnostic radiology. Divided into six sections, it covers all the key aspects of the imaging – ultrasound, computed tomography, magnetic resonance imaging, radiography and interventional radiography, and contrast media. The final section discusses miscellaneous topics including evidence based radiology, radiation protection, molecular imaging, planning a modern imaging department, and common drugs used. A separate chapter

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is dedicated to picture archiving and data management. This comprehensive new edition includes nearly 600 full colour radiological images and illustrations. Key points Fully updated, new edition presenting recent technological advances in diagnostic radiology Covers all key imaging techniques Includes nearly 600 radiological photographs and illustrations Previous edition published in 2007

This book is a complete programmer's guide to the X library, which is the lowest level of programming interface to X. It includes chapters on:

One of a series of three resource guides concerned with communication, control, and computer access for the disabled or the elderly, the book focuses on hardware and software. The guide's 13 chapters each cover products with the same primary function. Cross reference indexes allow access to listings of products by function, input/output feature, and computer model. Switches are listed separately by input/output features. Typically provided for each product are usually an illustration, the product name, vendor, size, weight, power source, connector type, cost, and a description. Part I, "Computer Adaptations," presents the following types of items: modifications for standard keyboards; alternate inputs usable with all software; input devices usable with only some software; input adapters for computers; alternate display systems usable with all software; Braille printers and tactile display components; speech synthesizers; and other software and hardware adaptations. Part II, "Application Software for Special Ed

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and Rehab," includes software for administration and management; assessment; education, training, and therapy; recreation; and personal tools or aids.

Appendixes include a list of additional sources of information, a glossary, addresses of manufacturers listed with their products, and an alphabetical listing of all products in the 3-book series. (DB)

An in depth examination of manufacturing control systems using structured design methods. Topics include ladder logic and other IEC 61131 standards, wiring, communication, analog IO, structured programming, and communications. Allen Bradley PLCs are used extensively through the book, but the formal design methods are applicable to most other PLC brands. A full version of the book and other materials are available on-line at

<http://engineeronadisk.com>

PID Control for Industrial Processes presents a clear, multidimensional representation of proportional - integral - derivative (PID) control for both students and specialists working in the area of PID control. It mainly focuses on the theory and application of PID control in industrial processes. It incorporates recent developments in PID control technology in industrial practice. Emphasis has been given to finding the best possible approach to develop a simple and optimal solution for industrial users. This book includes several chapters that cover a

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broad range of topics and priority has been given to subjects that cover real-world examples and case studies. The book is focused on approaches for controller tuning, i.e., method bases on open-loop plant tests and closed-loop experiments.

Lara Bailey isn't in Rocky Springs for the hot springs, the resort activities or the fabulous skiing. She has come to Colorado for one reason and one reason only: to find and get close to Marcus Colter, the eldest Colter brother. Unfortunately, trouble finds her in the form of Tate Colter rather than Marcus. The youngest Colter brother is arrogant, cocky, smart, and tenacious in his attempts to find out why she wants to find Marcus even though she's never met him. Lara isn't willing to divulge that information, and Tate is determined to uncover her motives. It makes Tate one hot, wickedly sexy, adorably dimpled, alpha male pain in her backside. Lara is really confused when Tate helps her out of a difficult and potentially dangerous situation. It leaves Lara wondering if he really is the cocky, arrogant jerk that he pretends to be, or if there isn't much more to Tate Colter than she'd initially thought. Tate Colter wants Lara Bailey in his bed...badly. When she completely blows him off and ignores him when they meet, he's even more determined to find out her secrets and get her to submit to the molten desire that radiates between the two of them. The fact that she's one tough

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female, a woman who can give back exactly what he dishes out, makes her even more intriguing to him. Sparks fly as Tate and Lara become involved in a battle of wits and wills that will ignite flames of passion and desire like neither one of them have ever experienced. But when deception is discovered and a betrayal takes place, can these two adversaries who are so much alike work together without letting the white-hot passion burning between them incinerate them both?

The ultimate handbook on microwave circuit design with CAD. Full of tips and insights from seasoned industry veterans, Microwave Circuit Design offers practical, proven advice on improving the design quality of microwave passive and active circuits-while cutting costs and time. Covering all levels of microwave circuit design from the elementary to the very advanced, the book systematically presents computer-aided methods for linear and nonlinear designs used in the design and manufacture of microwave amplifiers, oscillators, and mixers. Using the newest CAD tools, the book shows how to design transistor and diode circuits, and also details CAD's usefulness in microwave integrated circuit (MIC) and monolithic microwave integrated circuit (MMIC) technology. Applications of nonlinear SPICE programs, now available for microwave CAD, are described. State-of-the-art coverage includes microwave transistors (HEMTs, MODFETs, MESFETs, HBTs, and more), high-power amplifier design, oscillator design

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including feedback topologies, phase noise and examples, and more. The techniques presented are illustrated with several MMIC designs, including a wideband amplifier, a low-noise amplifier, and an MMIC mixer. This unique, one-stop handbook also features a major case study of an actual anticollision radar transceiver, which is compared in detail against CAD predictions; examples of actual circuit designs with photographs of completed circuits; and tables of design formulae.

This textbook is a practical guide to the use of small animal imaging in preclinical research that will assist in the choice of imaging modality and contrast agent and in study design, experimental setup, and data evaluation. All established imaging modalities are discussed in detail, with the assistance of numerous informative illustrations. While the focus of the new edition remains on practical basics, it has been updated to encompass a variety of emerging imaging modalities, methods, and applications. Additional useful hints are also supplied on the installation of a small animal unit, study planning, animal handling, and cost-effective performance of small animal imaging. Cross-calibration methods and data postprocessing are considered in depth. This new edition of Small Animal Imaging will be an invaluable aid for researchers, students, and technicians involved in research into and applications of small animal imaging.

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Organizational change impacts upon all organizations regardless of size and sector. In this unique organizational change textbook, important ongoing debates about managing change and leading change are combined, giving a broader perspective that encourages readers to engage with both management and leadership. In combination, management and leadership insights inform how organizations are changing and how we can make a positive difference in such processes of change. *Managing and Leading Organizational Change* speaks both to the applied and practical aspects of organizational change, as well as questioning the research and evidence base of organizational change practices. Chapters begin with real-world insights, followed by coverage of the major theories. The ongoing nature of these debates is signposted through the inclusion of questioning sections with research case studies showcased. This textbook will be particularly beneficial for final year undergraduates and postgraduates studying organizational change, strategic change, change management and change leadership modules.

This fully revised and updated follow-up to Dr. William B. Geissler's *Wrist Arthroscopy* has expanded its scope to include arthroscopy techniques of the elbow in addition to the wrist. This practical guide covers fundamental topics, such as arthroscopic anatomy, set-up and the proper evaluation of wrist and elbow pain, along with advanced discussions of electrothermal shrinkage, arthroscopy of the thumb and small joints of the hand, and specific diagnoses for an array of common injuries. Current

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minimally invasive procedures are described in detail, including management of carpal instability, arthroscopic proximal row carpectomy, arthroscopic knotless TFCC repair, arthroscopic SLIC screw for scapholunate instability, arthroscopic fixation of intra-articular fractures of the hand, arthroscopic partial wrist fusions, and innovative techniques in dry arthroscopy. Arthroscopic management of the elbow includes treatment for arthritis, contractures and instability. Selected chapters contain companion video as well, demonstrating surgical set-up and arthroscopic techniques. Written by a truly international cast and edited by an expert in arthroscopic hand and upper extremity surgery, *Wrist and Elbow Arthroscopy* is a practical guide to technique for orthopedic surgeons, hand surgeons, and sports medicine practitioners alike. This book is a printed edition of the Special Issue "Nutrition and Chronic Conditions" that was published in *Nutrients*

"This book is an indispensable illustrated resource for railfans and families on road trips, filled with easy-to-find information on locomotives and rolling stock, such as railroad cars, coaches, and wagons"--Provided by publisher.

This book describes current examination techniques and advanced clinical applications of state-of-the-art multidetector computed tomography (MDCT) scanners. There are contributions from several distinguished radiologists and clinicians. Each chapter is written from a practical perspective, so that radiologists, residents, medical physicists, and radiology technologists can obtain relevant information about MDCT applications.

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These volumes contain the contributions to the Second European Conference on Unsaturated Soils, E-UNSAT 2012, held in Napoli, Italy, in June 2012. The event is the second of a series of European conferences, and follows the first successful one, organised in Durham, UK, in 2008. The conference series is supported by Technical Committee 106 of the International Society of Soil Mechanics and Geotechnical Engineering on Unsaturated Soils. The published contributions were selected after a careful peer-review process. A collection of more than one hundred papers is included, addressing the three thematic areas experimental, including advances in testing techniques and soil behaviour, modelling, covering theoretical and constitutive issues together with numerical and physical modelling, and engineering, focusing on approaches, case histories and geo-environmental themes. The areas of application of the papers embrace most of the geotechnical problems related to unsaturated soils. Increasing interest in geo-environmental problems, including chemical coupling, marks new perspectives in unsaturated soil mechanics. This book will provide a valuable up-to-date reference across the subject for both researchers and practitioners.

Many reports over the last few years have analysed the potential use of games, videogames, 3D environments and virtual reality for educational purposes. Numerous emerging technological devices have also appeared that will play important roles in the development of teaching and learning processes. In the context of these developments, learning rather than teaching becomes the main axis in the organisation of the educational process. This process has now gone beyond the analogue world and face-to-face education to enter the digital world,

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where new learning environments are being produced with ever greater doses of realism.

Teaching and Learning in Digital Worlds examines the teaching and learning process in 3D virtual environments from both the theoretical and practical points of view.

This book offers a broad overview of the field of cognitive engineering and neuroergonomics, covering emerging practices and future trends toward the harmonious integration of human operators and computational systems. It gathers both theoretical and practice-oriented studies on mental workload and stress, activity theory, human reliability, error and risk. It covers applications in various field, and corresponding strategies to make assistive technologies more user-oriented. Further, the book describes key advances in our understanding of cognitive processes, including mechanisms of perception, memory, reasoning, and motor response, with a particular focus on their role in interactions between humans and other elements of computer-based systems. Gathering the proceedings of the AHFE 2021 Conferences on Neuroergonomics and Cognitive Engineering, Industrial Cognitive Ergonomics and Engineering Psychology, and Cognitive Computing and Internet of Things, held virtually on July 25-29, 2021, from USA, this book offers extensive information and a thought-provoking guide for researchers and practitioners in cognitive engineering, neuroergonomics and their applications.

Provides engineers and technicians with detailed data and information on the characteristics, properties, performance, and uses of all types of electric batteries.

This book provides up-to-date and practical knowledge in all aspects of whole slide imaging (WSI) by experts in the field. This includes a historical perspective on the evolution of this technology, technical aspects of making a great whole slide image, the various applications of

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whole slide imaging and future applications using WSI for computer-aided diagnosis The goal is to provide practical knowledge and address knowledge gaps in this emerging field. This book is unique because it addresses an emerging area in pathology for which currently there is only limited information about the practical aspects of deploying this technology. For example, there are no established selection criteria for choosing new scanners and a knowledge base with the key information. The authors of the various chapters have years of real-world experience in selecting and implementing WSI solutions in various aspects of pathology practice. This text also discusses practical tips and pearls to address the selection of a WSI vendor, technology details, implementing this technology and provide an overview of its everyday uses in all areas of pathology. Chapters include important information on how to integrate digital slides with laboratory information system and how to streamline the “digital workflow” with the intent of saving time, saving money, reducing errors, improving efficiency and accuracy, and ultimately benefiting patient outcomes. Whole Slide Imaging: Current Applications and Future Directions is designed to present a comprehensive and state-of-the-art approach to WSI within the broad area of digital pathology. It aims to give the readers a look at WSI with a deeper lens and also envision the future of pathology imaging as it pertains to WSI and associated digital innovations.

Ventricular arrhythmias cause most cases of sudden cardiac death, which is the leading cause of death in the US. This issue reviews the causes of arrhythmias and the promising new drugs and devices to treat arrhythmias.

This comprehensive handbook synthesizes the often-fractured relationship between the study of biology and the study of society. Bringing together a compelling array of interdisciplinary

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contributions, the authors demonstrate how nuanced attention to both the biological and social sciences opens up novel perspectives upon some of the most significant sociological, anthropological, philosophical and biological questions of our era. The six sections cover topics ranging from genomics and epigenetics, to neuroscience and psychology to social epidemiology and medicine. The authors collaboratively present state-of-the-art research and perspectives in some of the most intriguing areas of what can be called biosocial and biocultural approaches, demonstrating how quickly we are moving beyond the acrimonious debates that characterized the border between biology and society for most of the twentieth century. This landmark volume will be an extremely valuable resource for scholars and practitioners in all areas of the social and biological sciences. The chapter 'Ten Theses on the Subject of Biology and Politics: Conceptual, Methodological, and Biopolitical Considerations' is open access under a CC BY 4.0 license via link.springer.com. Versions of the chapters 'The Transcendence of the Social', 'Scrutinizing the Epigenetics Revolution', 'Species of Biocapital, 2008, and Speciating Biocapital, 2017' and 'Experimental Entanglements: Social Science and Neuroscience Beyond Interdisciplinarity' are available open access via third parties. For further information please see license information in the chapters or on link.springer.com.

This book provides extensive research into the use of augmented reality in the three interconnected and overlapping fields of the tourism industry, museum exhibitions, and cultural heritage. It is written by a virtual team of 50 leading researchers and practitioners from 16 countries around the world. The authors explore the opportunities and challenges of augmented reality applications, their

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current status and future trends, informal learning and heritage preservation, mixed reality environments and immersive installations, cultural heritage education and tourism promotion, visitors with special needs, and emerging post-COVID-19 museums and heritage sites. *Augmented Reality in Tourism, Museums and Heritage: A New Technology to Inform and Entertain* is essential reading not only for researchers, application developers, educators, museum curators, tourism and cultural heritage promoters, but also for students (both graduates and undergraduates) and anyone who is interested in the efficient and practical use of augmented reality technology.

This handbook is designed to aid electronic warfare and radar systems engineers in making general estimations regarding capabilities of systems. It is not intended as a detailed designer's guide, due to space limitations. Portions of the handbook and future changes will be posted on an internet link.

Methadone and buprenorphine are the only two opioids that are indicated for the management of both pain and opioid-related drug addiction. Both present unique challenges to the general practitioner and pain specialist, requiring a separate analysis from the rest of the drugs in the same family. *Handbook of Methadone Prescribing and Buprenorphine Therapy* is an invaluable guide to the safe use of these opioids. Authored by clinical and academic leaders from a variety of

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settings and backgrounds, this book includes chapters on pharmacology, adverse effects, safe rotation from other opioids, cardiac toxicity, prescribing, pharmacokinetics, equianalgesic dose and replacement therapy. This comprehensive text provides clinicians, researchers, policy-makers and academicians a resource for all the relevant points in methadone prescribing and buprenorphine therapy.

As technology advancement has increased, so to have computational applications for forecasting, modelling and trading financial markets and information, and practitioners are finding ever more complex solutions to financial challenges. Neural networking is a highly effective, trainable algorithmic approach which emulates certain aspects of human brain functions, and is used extensively in financial forecasting allowing for quick investment decision making. This book presents the most cutting-edge artificial intelligence (AI)/neural networking applications for markets, assets and other areas of finance. Split into four sections, the book first explores time series analysis for forecasting and trading across a range of assets, including derivatives, exchange traded funds, debt and equity instruments. This section will focus on pattern recognition, market timing models, forecasting and trading of financial time series. Section II provides insights into macro and microeconomics and how AI techniques could

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be used to better understand and predict economic variables. Section III focuses on corporate finance and credit analysis providing an insight into corporate structures and credit, and establishing a relationship between financial statement analysis and the influence of various financial scenarios. Section IV focuses on portfolio management, exploring applications for portfolio theory, asset allocation and optimization. This book also provides some of the latest research in the field of artificial intelligence and finance, and provides in-depth analysis and highly applicable tools and techniques for practitioners and researchers in this field. This volume contains the proceedings of the 18th IFIP International Conference on Testing Communicating Systems (TestCom 2006).

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