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KEY=MANUAL - KIERA KERR

Introduction to Instrumentation and Measurements

CRC Press Weighing in on the growth of innovative technologies, the adoption of new standards, and the lack of educational development as it relates to current and emerging applications, the third edition of Introduction to Instrumentation and Measurements uses the authors' 40 years of teaching experience to expound on the theory, science, and art of modern instrumentation and measurements (I&M). What's New in This Edition: This edition includes material on modern integrated circuit (IC) and photonic sensors, micro-electro-mechanical (MEM) and nano-electro-mechanical (NEM) sensors, chemical and radiation sensors, signal conditioning, noise, data interfaces, and basic digital signal processing (DSP), and upgrades every chapter with the latest advancements. It contains new material on the designs of micro-electro-mechanical (MEMS) sensors, adds two new chapters on wireless instrumentation and microsensors, and incorporates extensive biomedical examples and problems. Containing 13 chapters, this third edition: Describes sensor dynamics, signal conditioning, and data display and storage Focuses on means of conditioning the analog outputs of various sensors Considers noise and coherent interference in measurements in depth Covers the traditional topics of DC null methods of measurement and AC null measurements Examines Wheatstone and Kelvin bridges and potentiometers Explores the major AC bridges used to measure inductance, Q, capacitance, and D Presents a survey of sensor mechanisms Includes a description and analysis of sensors based on the giant magnetoresistive effect (GMR) and the anisotropic magnetoresistive (AMR) effect Provides a detailed analysis of mechanical gyroscopes, clinometers, and accelerometers Contains the classic means of measuring electrical quantities Examines digital interfaces in measurement systems Defines digital signal conditioning in instrumentation Addresses solid-state chemical microsensors and wireless instrumentation Introduces mechanical microsensors (MEMS and NEMS) Details examples of the design of measurement systems Introduction to Instrumentation and Measurements is written with practicing engineers and scientists in mind, and is intended to be used in a classroom course or as a reference. It is assumed that the reader has taken core EE curriculum courses or their equivalents.

The Practical Handbook of Genetic Algorithms

New Frontiers, Volume II

CRC Press The mathematics employed by genetic algorithms (GAs) are among the most exciting discoveries of the last few decades. But what exactly is a genetic algorithm? A genetic algorithm is a problem-solving method that uses genetics as its model of problem solving. It applies the rules of reproduction, gene crossover, and mutation to pseudo-organism

Behavioural Phenotypes

Cambridge University Press A timely distillation of current thinking on the presentation of behavioural disorders and their origins.

Distributed and Cloud Computing

From Parallel Processing to the Internet of Things

Morgan Kaufmann Distributed and Cloud Computing: From Parallel Processing to the Internet of Things offers complete coverage of modern distributed computing technology including clusters, the grid, service-oriented architecture, massively parallel processors, peer-to-peer networking, and cloud computing. It is the first modern, up-to-date distributed systems textbook; it explains how to create high-performance, scalable, reliable systems, exposing the design principles, architecture, and innovative applications of parallel, distributed, and cloud computing systems. Topics covered by this book include: facilitating management, debugging, migration, and disaster recovery through virtualization; clustered systems for research or ecommerce applications; designing systems as web services; and social networking systems using peer-to-peer computing. The principles of cloud computing are discussed using examples from open-source and commercial applications, along with case studies from the leading distributed computing vendors such as Amazon, Microsoft, and Google. Each chapter includes exercises and further reading, with lecture slides and more available online. This book will be ideal for students taking a distributed systems or distributed computing class, as well as for professional system designers and engineers looking for a reference to the latest distributed technologies including cloud, P2P and grid computing. Complete coverage of modern distributed computing technology including clusters, the grid, service-oriented architecture, massively parallel processors, peer-to-peer networking, and cloud computing Includes case studies from the leading distributed computing vendors: Amazon, Microsoft, Google, and more Explains how to use virtualization to facilitate management, debugging, migration, and disaster recovery Designed for undergraduate or graduate students taking a distributed systems course—each chapter includes exercises and further reading, with lecture slides and more available online

Principles of Environmental Physics

Butterworth-Heinemann Thoroughly revised and up-dated edition of a highly successful textbook.

Springer Handbook of Spacetime

Springer The Springer Handbook of Spacetime is dedicated to the ground-breaking paradigm shifts embodied in the two relativity theories, and describes in detail the profound reshaping of physical sciences they ushered in. It includes in a single volume chapters on foundations, on the underlying mathematics, on physical and astrophysical implications, experimental evidence and cosmological predictions, as well as chapters on efforts to unify general relativity and quantum physics. The Handbook can be used as a desk reference by researchers in a wide variety of fields, not only by specialists in relativity but also by researchers in related areas that either grew out of, or are deeply influenced by, the two relativity theories: cosmology, astronomy and astrophysics, high energy physics, quantum

field theory, mathematics, and philosophy of science. It should also serve as a valuable resource for graduate students and young researchers entering these areas, and for instructors who teach courses on these subjects. The Handbook is divided into six parts. Part A: Introduction to Spacetime Structure. Part B: Foundational Issues. Part C: Spacetime Structure and Mathematics. Part D: Confronting Relativity theories with observations. Part E: General relativity and the universe. Part F: Spacetime beyond Einstein.

R in Action

Data analysis and graphics with R

Simon and Schuster Summary R in Action, Second Edition presents both the R language and the examples that make it so useful for business developers. Focusing on practical solutions, the book offers a crash course in statistics and covers elegant methods for dealing with messy and incomplete data that are difficult to analyze using traditional methods. You'll also master R's extensive graphical capabilities for exploring and presenting data visually. And this expanded second edition includes new chapters on time series analysis, cluster analysis, and classification methodologies, including decision trees, random forests, and support vector machines. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Business pros and researchers thrive on data, and R speaks the language of data analysis. R is a powerful programming language for statistical computing. Unlike general-purpose tools, R provides thousands of modules for solving just about any data-crunching or presentation challenge you're likely to face. R runs on all important platforms and is used by thousands of major corporations and institutions worldwide. About the Book R in Action, Second Edition teaches you how to use the R language by presenting examples relevant to scientific, technical, and business developers. Focusing on practical solutions, the book offers a crash course in statistics, including elegant methods for dealing with messy and incomplete data. You'll also master R's extensive graphical capabilities for exploring and presenting data visually. And this expanded second edition includes new chapters on forecasting, data mining, and dynamic report writing. What's Inside Complete R language tutorial Using R to manage, analyze, and visualize data Techniques for debugging programs and creating packages OOP in R Over 160 graphs About the Author Dr. Rob Kabacoff is a seasoned researcher and teacher who specializes in data analysis. He also maintains the popular Quick-R website at statmethods.net. Table of Contents PART 1 GETTING STARTED Introduction to R Creating a dataset Getting started with graphs Basic data management Advanced data management PART 2 BASIC METHODS Basic graphs Basic statistics PART 3 INTERMEDIATE METHODS Regression Analysis of variance Power analysis Intermediate graphs Resampling statistics and bootstrapping PART 4 ADVANCED METHODS Generalized linear models Principal components and factor analysis Time series Cluster analysis Classification Advanced methods for missing data PART 5 EXPANDING YOUR SKILLS Advanced graphics with ggplot2 Advanced programming Creating a package Creating dynamic reports Advanced graphics with the lattice package available online only from manning.com/kabacoff2

The Second Digital Turn

Design Beyond Intelligence

MIT Press The first digital turn in architecture changed our ways of making; the second changes our ways of thinking. Almost a generation ago, the early software for computer aided design and manufacturing (CAD/CAM) spawned a style of smooth and curving lines and surfaces that gave visible form to the first digital age, and left an indelible mark on contemporary architecture. But today's digitally intelligent architecture no longer looks that way. In *The Second Digital Turn*, Mario Carpo explains that this is because the design professions are now coming to terms with a new kind of digital tools they have adopted—no longer tools for making but tools for thinking. In the early 1990s the design professions were the first to intuit and interpret the new technical logic of the digital age: digital mass-customization (the use of digital tools to mass-produce variations at no extra cost) has already changed the way we produce and consume almost everything, and the same technology applied to commerce at large is now heralding a new society without scale—a flat marginal cost society where bigger markets will not make anything cheaper. But today, the unprecedented power of computation also favors a new kind of science where prediction can be based on sheer information retrieval, and form finding by simulation and optimization can replace deduction from mathematical formulas. Designers have been toying with machine thinking and machine learning for some time, and the apparently unfathomable complexity of the physical shapes they are now creating already expresses a new form of artificial intelligence, outside the tradition of modern science and alien to the organic logic of our mind.

Nyquist AD Converters, Sensor Interfaces, and Robustness

Advances in Analog Circuit Design, 2012

Springer Science & Business Media This book is based on the 18 presentations during the 21st workshop on Advances in Analog Circuit Design. Expert designers provide readers with information about a variety of topics at the frontier of analog circuit design, including Nyquist analog-to-digital converters, capacitive sensor interfaces, reliability, variability, and connectivity. This book serves as a valuable reference to the state-of-the-art, for anyone involved in analog circuit research and development.

Mycorrhizal Symbiosis

Academic Press The roots of most plants are colonized by symbiotic fungi to form mycorrhiza, which play a critical role in the capture of nutrients from the soil and therefore in plant nutrition. *Mycorrhizal Symbiosis* is recognized as the definitive work in this area. Since the last edition was published there have been major advances in the field, particularly in the area of molecular biology, and the new edition has been fully revised and updated to incorporate these exciting new developments. Over 50% new material Includes expanded color plate section Covers all aspects of mycorrhiza Presents new taxonomy Discusses the impact of proteomics and genomics on research in this area

Maritime Psychology

Research in Organizational & Health Behavior at Sea

Springer This first-of-its-kind volume assembles current research on psychosocial issues and behavioral and safety concerns inherent in life and careers at sea. Focusing mainly on the commercial maritime transport sector, it sets out the basic concepts of maritime psychology in the contexts of health and occupational psychology and illustrates more expansive applications across nautical domains. A systems perspective and detailed case studies spotlight unique challenges to mariners' work performance, personal and environmental health and safety; it also provides support for psychometric assessment of seafarers, and describes emerging uses for the healing properties of the sea and sailing. The book is a springboard for continued research and practice development, further interaction between psychology and the maritime world, and the continued broadening and deepening of the field. Among the topics covered: · Positive psychology and wellbeing at sea. · Transferring learning across safety critical industries. · Occupational stress in seafarers. · The psychology of ship architecture and design. · Motion sickness susceptibility and management at sea. · Risk communication during a maritime disaster. Written with clarity and nuance reflecting the vastness of marine experience, *Maritime Psychology* will be of interest to lecturers, researchers, and students of occupational and health psychology and maritime science, and to social and health scientists and practitioners in these and related fields.

The Cognitive Neurosciences

MIT Press The fourth edition of the work that defines the field of cognitive neuroscience, offering completely new material.

APA Handbook of Forensic Neuropsychology

American Psychological Association (APA) The APA Handbook of Forensic Neuropsychology covers scientific and clinical neuropsychological advances and their application in forensic contexts.

Augmented

Life in the Smart Lane

Marshall Cavendish International Asia Pte Ltd The Internet and smartphone are just the latest in a 250-year-long cycle of disruption that has continuously changed the way we live, the way we work and the way we interact. The coming Augmented Age, however, promises a level of disruption, behavioural shifts and changes that are unparalleled. While consumers today are camping outside of an Apple store waiting to be one of the first to score a new Apple Watch or iPhone, the next generation of wearables will be able to predict if we're likely to have a heart attack and recommend a course of action. We watch news of Google's self-driving cars, but don't likely realise this means progressive cities will have to ban human drivers in the next decade because us humans are too risky. Following on from the Industrial or machine age, the space age and the digital age, the Augmented Age will be based on four key disruptive themes—Artificial Intelligence, Experience Design, Smart Infrastructure, and HealthTech. Historically the previous 'ages' brought significant disruption and changes, but on a net basis jobs were created, wealth was enhanced, and the health and security of society improved. What will the Augmented Age bring? Will robots take our jobs, and AI's subsume us as inferior intelligences, or will this usher in a new age of abundance? Augmented is a book on future history, but more than that, it is a story about how you will live your life in a world that will change more in the next 20 years than it has in the last 250 years. Are you ready to adapt? Because if history proves anything, you don't have much of a choice.

Mathematical Biology

An Introduction with Maple and Matlab

Springer Science & Business Media This text presents mathematical biology as a field with a unity of its own, rather than only the intrusion of one science into another. The book focuses on problems of contemporary interest, such as cancer, genetics, and the rapidly growing field of genomics.

Barkley Deficits in Executive Functioning Scale (BDEFS)

Guilford Press The Barkley Deficits in Executive Functioning Scale (BDEFS) is an empirically based tool for evaluating dimensions of adult executive functioning in daily life. Evidence indicates that the BDEFS is far more predictive of impairments in major life activities than more time-consuming and costly traditional EF tests. The BDEFS offers an ecologically valid snapshot of the capacities involved in time management, organization and problem solving, self-restraint, self-motivation, and self-regulation of emotions. It comprises both self- and other-reports in a long form (15-20 minutes) and a short form (4-5 minutes). Special features include an adult ADHD risk index in the long form. Complete instructions for scoring and interpreting the scale are provided. See also the Barkley Deficits in Executive Functioning Scale--Children and Adolescents (BDEFS-CA) and Barkley's authoritative book on EF development and deficits, Executive Functions. Also available: Barkley Adult ADHD Rating Scale--IV (BAARS-IV) and Barkley Functional Impairment Scale (BFIS for Adults). Includes Permission to Photocopy Enhancing the convenience and value of the BDEFS, the limited photocopy license allows purchasers to reproduce the forms and score sheets and yields considerable cost savings over other available scales. The large format and sturdy wire binding facilitate photocopying.

The Secret Ingredient

To Winning at Chess

Quality Chess The Secret Ingredient is a grandmaster guide to maximizing your chess results, focusing on key elements of practical play which have received little to no attention in previous chess literature. - How exactly can we best make use of computers? - What's the ideal, step-by-step way to prepare against a specific opponent? - How can we optimize our time management at the board? - And what's the one key skill that separates the best players from those who have yet to reach their full potential? GM Jan Markos sheds light on these topics and many more, helped by the world-class insights of his good friend GM David Navara.

Combustion Engineering, Second Edition

CRC Press Combustion Engineering, Second Edition maintains the same goal as the original: to present the fundamentals of combustion science with application to today's energy challenges. Using combustion applications to reinforce the fundamentals of combustion science, this text provides a uniquely accessible introduction to combustion for undergraduate students, first-year graduate students, and professionals in the workplace. Combustion is a critical issue impacting energy utilization, sustainability, and climate change. The challenge is to design safe and efficient combustion systems for many types of fuels in a way that protects the environment and enables sustainable lifestyles. Emphasizing the use of combustion fundamentals in the engineering and design of combustion systems, this text provides detailed coverage of gaseous, liquid and solid fuel combustion, including focused coverage of biomass combustion, which will be invaluable to new entrants to the field. Eight chapters address the fundamentals of combustion, including fuels, thermodynamics, chemical kinetics, flames, detonations, sprays, and solid fuel combustion mechanisms. Eight additional chapters apply these fundamentals to furnaces, spark ignition and diesel engines, gas turbines, and suspension burning, fixed bed combustion, and fluidized bed combustion of solid fuels. Presenting a renewed emphasis on fundamentals and updated applications to illustrate the latest trends relevant to combustion engineering, the authors provide a number of pedagogic features, including: Numerous tables with practical data and formulae that link combustion fundamentals to engineering practice Concise presentation of mathematical methods with qualitative descriptions of their use Coverage of alternative and renewable fuel topics throughout the text Extensive example problems, chapter-end problems, and references These features and the overall fundamentals-to-practice nature of this book make it an ideal resource for undergraduate, first level graduate, or professional training classes. Students and practitioners will find that it is an excellent introduction to meeting the crucial challenge of engineering sustainable combustion systems in a cost-effective manner. A solutions manual and additional teaching resources are available with qualifying course adoption.

Magnetic Nanoparticles

John Wiley & Sons This interdisciplinary approach to the topic brings together reviews of the physics, chemistry, fabrication and application of magnetic nanoparticles and nanostructures within a single cover. With its discussion of the basics as well as the most recent developments, and featuring many examples of practical applications, the result is both a clear and concise introduction to the topic for beginners and a guide to relevant comprehensive physical phenomena and essential technological applications for experienced researchers.

Multimedia Tools and Applications for Environmental & Biodiversity Informatics

Springer This edited volume focuses on the latest and most impactful advancements of multimedia data globally available for environmental and earth biodiversity. The data reflects the status, behavior, change as well as human interests and concerns which are increasingly crucial for understanding environmental issues and phenomena. This volume addresses the need for the development of advanced methods, techniques and tools for collecting, managing, analyzing, understanding and modeling environmental & biodiversity data, including the automated or collaborative species identification, the species distribution modeling and their environment, such as the air quality or the bio-acoustic monitoring. Researchers and practitioners in multimedia and environmental topics will find the chapters essential to their continued studies.

The Cambridge Handbook of Clinical Assessment and Diagnosis

Cambridge University Press This Handbook provides a contemporary and research-informed review of the topics essential to clinical psychological assessment and diagnosis. It outlines assessment issues that cross all methods, settings, and disorders, including (but not limited to) psychometric issues, diversity factors, ethical dilemmas, validity of patient presentation, psychological assessment in treatment, and report writing. These themes run throughout the volume as leading researchers summarize the empirical findings and technological advances in their area. With each chapter written by major experts in their respective fields, the text gives interpretive and practical guidance for using psychological measures for assessment and diagnosis.

Network and System Security

12th International Conference, NSS 2018, Hong Kong, China, August 27-29, 2018, Proceedings

Springer This book constitutes the proceedings of the 12th International Conference on Network and System Security, NSS 2018, held in Hong Kong, China, in August 2018. The 26 revised full papers and 9 short papers presented in this book were carefully reviewed and selected from 88 initial submissions. The papers cover a wide range of topics in the field, including blockchain, mobile security, applied cryptography, authentication, biometrics, IoT, privacy, and education.

On the Mathematical Modeling of Memristor, Memcapacitor, and Meminductor

Springer This book introduces the basic fundamentals, models, emulators and analyses of mem-elements in the circuit theory with applications. The book starts reviewing the literature on mem-elements, models and their recent applications. It presents mathematical models, numerical results, circuit simulations, and experimental results for double-loop hysteresis behavior of mem-elements. The authors introduce a generalized memristor model in the fractional-order domain under different input and different designs for emulator-based mem-elements, with circuit and experimental results. The basic concept of memristive-based relaxation-oscillators in the circuit theory is also covered. The reader will moreover find in this book information on memristor-based multi-level digital circuits, memristor-based multi-level multiplier and memcapacitor-based oscillators and synaptic circuits.

Gnucash 2.4 Small Business Accounting

Beginner's Guide

Packt Publishing Ltd Annotation Attention, small business owners! Stop tax-day stress. Stop procrastinating with a shoebox full of receipts. Stop reinventing the wheel with a spreadsheet. Stop making decisions simply on a hunch. Stop wasting money on software that is overkill. Start by downloading GnuCash and getting your accounts in order. Designed to be easy to use, yet powerful and flexible, GnuCash allows you to track bank accounts, income, and expenses. As quick and intuitive to use as a checkbook register, it is based on professional accounting principles to ensure balanced books and accurate reports. You can do it and Gnucash 2.4 Small Business Accounting Beginner's Guide will help you get up and running with maintaining your accounts. Gnucash 2.4 Small Business Accounting Beginner's Guide speaks business language, not accountant-speak, because it is written by a former small business owner. It guides you to use GnuCash from scratch with step-by-step tutorials without jargon, pointing out the gotchas to avoid with lots of tips. It will teach you to work on routine business transactions while migrating transaction data from other applications gradually. You will be able to keep on top of transactions and run reports after reading just three chapters! Beyond Chapter 3, it is up to you how far you want to go. Reconcile with your bank and credit card statements. Charge and pay sales tax. Do invoicing. Track payments due. Set up reminders for bills. Avoid stress at tax time. Print checks. Capture expenses using your mobile phone. Gnucash 2.4 Small Business Accounting Beginner's Guide gives you the power. Know your numbers. Make decisions with confidence. Drive your business to its full potential. Get your accounts in order and avoid tax-day stress with this hands-on guide to GnuCash, the best free accounts software in the world.

Linux Network Administrator's Guide

"O'Reilly Media, Inc." This introduction to networking on Linux now covers firewalls, including the use of ipchains and Netfilter, masquerading, and accounting. Other new topics in this second edition include Novell (NCP/IPX) support and INN (news administration).

Neutron Stars and Pulsars

Springer Science & Business Media Neutron stars are the most compact astronomical objects in the universe which are accessible by direct observation. Studying neutron stars means studying physics in regimes unattainable in any terrestrial laboratory. Understanding their observed complex phenomena requires a wide range of scientific disciplines, including the nuclear and condensed matter physics of very dense matter in neutron star interiors, plasma physics and quantum electrodynamics of magnetospheres, and the relativistic magneto-hydrodynamics of electron-positron pulsar winds interacting with some ambient medium. Not to mention the test bed neutron stars provide for general relativity theories, and their importance as potential sources of gravitational waves. It is this variety of disciplines which, among others, makes neutron star research so fascinating, not only for those who have been working in the field for many years but also for students and young scientists. The aim of this book is to serve as a reference work which not only reviews the progress made since the early days of pulsar astronomy, but especially focuses on questions such as: "What have we learned about the subject and how did we learn it?", "What are the most important open questions in this area?" and "What new tools, telescopes,

observations, and calculations are needed to answer these questions?". All authors who have contributed to this book have devoted a significant part of their scientific careers to exploring the nature of neutron stars and understanding pulsars. Everyone has paid special attention to writing educational comprehensive review articles with the needs of beginners, students and young scientists as potential readers in mind. This book will be a valuable source of information for these groups.

Agricultural Salinity and Drainage

This handbook has been developed to bridge the gap between the advanced salinity literature and practical information on salinity intended for lay audiences. A user-friendly resource for agricultural consultants and advisors, as well as for local, state and federal agricultural and water agency management staff. Includes thirty-eight chapters covering a broad spectrum of salinity and drainage topics, written so as to be easily understood by anyone with a general agricultural background. Also includes appendices presented as a shorthand guide to assessing soil salinity and to determining the suitability of a given water for irrigation. Illustrated with 27 tables and 44 figures. One of a series of water management handbooks prepared by the UC Irrigation Program.

7th International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS'09)

Springer Science & Business Media PAAMS, the International Conference on Practical Applications of Agents and Multi-Agent Systems is an evolution of the International Workshop on Practical Applications of Agents and Multi-Agent Systems. PAAMS is an international yearly tribute to present, to discuss, and to disseminate the latest developments and the most important outcomes related to real-world applications. It provides a unique opportunity to bring multi-disciplinary experts, academics and practitioners together to exchange their experience in the development of Agents and Multi-Agent Systems. This volume presents the papers that have been accepted for the 2009 edition. These articles capture the most innovative results and this year's trends: Assisted Cognition, E-Commerce, Grid Computing, Human Modelling, Information Systems, Knowledge Management, Agent-Based Simulation, Software Development, Transports, Trust and Security. Each paper has been reviewed by three different reviewers, from an international committee composed of 64 members from 20 different countries. From the 92 submissions received, 35 were selected for full presentation at the conference, and 26 were accepted as posters.

Open Source Systems: Long-Term Sustainability

8th IFIP WG 2.13 International Conference, OSS 2012, Hammamet, Tunisia, September 10-13, 2012, Proceedings

Springer This book constitutes the refereed proceedings of the 8th International IFIP WG 2.13 Conference on Open Source Systems, OSS 2012, held in Hammamet, Tunisia, in September 2012. The 15 revised full papers presented together with 17 lightning talks, 2 tool demonstration papers, 6 short industry papers, 5 posters and 2 workshop papers were carefully reviewed and selected from 63 submissions. The papers are organized in topical sections on collaboration and forks in OSS projects, community issues, open education and peer-production models, integration and architecture, business ecosystems, adoption and evolution of OSS, OSS quality, OSS in different domains, product development, and industrial experiences.

Particle-Based Methods

Fundamentals and Applications

Springer Science & Business Media The book contains 11 chapters written by relevant scientists in the field of particle-based methods and their applications in engineering and applied sciences. The chapters cover most particle-based techniques used in practice including the discrete element method, the smooth particle hydrodynamic method and the particle finite element method. The book will be of interest to researchers and engineers interested in the fundamentals of particle-based methods and their applications.

Artificial Intelligence Applications and Innovations

6th IFIP WG 12.5 International Conference, AIAI 2010, Larnaca, Cyprus, October 6-7, 2010, Proceedings

Springer Science & Business Media The abundance of information and increase in computing power currently enable researchers to tackle highly complicated and challenging computational problems. Solutions to such problems are now feasible using advances and innovations from the area of Artificial Intelligence. The general focus of the AIAI conference is to provide insights on how Artificial Intelligence may be applied in real-world situations and serve the study, analysis and modeling of theoretical and practical issues. This volume contains papers selected for presentation at the 6th IFIP Conference on Artificial Intelligence Applications and Innovations (AIAI 2010) and held in Larnaca, Cyprus, during October 6-7, 2010. IFIP AIAI 2010 was co-organized by the University of Cyprus and the Cyprus University of Technology and was sponsored by the Cyprus University of Technology, Frederick University and the Cyprus Tourism Organization. AIAI 2010 is the official conference of the WG12.5 "Artificial Intelligence Applications" working group of IFIP TC12, the International Federation for Information Processing Technical Committee on Artificial Intelligence (AI). AIAI is a conference that grows in significance every year attracting researchers from different countries around the globe. It maintains high quality, standards and welcomes research papers describing technical advances and engineering and industrial applications of intelligent systems. AIAI 2010 was not confined to introducing how AI may be applied in real-life situations, but also included innovative methods, techniques, tools and ideas of AI expressed at the algorithmic or systemic level.

Bulletproof SSL and TLS

Understanding and Deploying SSL/TLS and PKI to Secure Servers and Web Applications

Feisty Duck Bulletproof SSL and TLS is a complete guide to using SSL and TLS encryption to deploy secure servers and web applications. Written by Ivan Ristic, the author of the popular SSL Labs web site, this book will teach you everything you need to know to protect your systems from eavesdropping and impersonation attacks. In this book, you'll find just the right mix of theory, protocol detail, vulnerability and weakness information, and deployment advice to get your job done: - Comprehensive coverage of the ever-changing field of SSL/TLS and Internet PKI, with updates to the digital version - For IT security professionals, help to understand the risks - For system administrators, help to deploy systems securely - For developers, help to design and implement secure web applications - Practical and concise, with added depth when details are relevant - Introduction to cryptography and the latest TLS protocol version - Discussion of weaknesses at every level, covering implementation issues, HTTP and browser problems, and protocol vulnerabilities - Coverage of the latest attacks, such as BEAST, CRIME, BREACH, Lucky 13, RC4 biases, Triple Handshake Attack, and Heartbleed - Thorough deployment advice, including advanced technologies, such as Strict Transport Security, Content Security Policy, and pinning - Guide to using OpenSSL to generate keys and certificates and to create and run a private certification authority - Guide to using OpenSSL to test servers for vulnerabilities - Practical advice for secure server configuration using Apache httpd, IIS, Java, Nginx, Microsoft Windows, and Tomcat This book is available in paperback and a variety of digital formats without DRM.

Fundamentals of Food Process Engineering

Springer Science & Business Media Ten years after the publication of the first edition of Fundamentals of Food Process Engineering, there have been significant changes in both food science education and the food industry itself. Students now in the food science curriculum are generally better prepared mathematically than their counterparts two decades ago. The food science curriculum in most schools in the United States has split into science and business options, with students in the science option following the Institute of Food Technologists' minimum requirements. The minimum requirements include the food engineering course, thus students enrolled in food engineering are generally better than average, and can be challenged with more rigor in the course material. The food industry itself has changed. Traditionally, the food industry has been primarily involved in the canning and freezing of agricultural commodities, and a company's operations generally remain within a single commodity. Now, the industry is becoming more diversified, with many companies involved in operations involving more than one type of commodity. A number of formulated food products are now made where the commodity connection becomes obscure. The ability to solve problems is a valued asset in a technologist, and often, solving problems involves nothing more than applying principles learned in other areas to the problem at hand. A principle that may have been commonly used with one commodity may also be applied to another commodity to produce unique products.

Brand Immortality

How Brands Can Live Long and Prosper

Kogan Page Limited Explores the key marketing factors in brand health, and shows how brands need to adapt to prosper throughout their life. Shows how to manage strategy to ensure that a brand rides the category life-cycle waves and becomes immortal.

Fluid Mechanics

Academic Press Fluid mechanics, the study of how fluids behave and interact under various forces and in various applied situations-whether in the liquid or gaseous state or both-is introduced and comprehensively covered in this widely adopted text. Revised and updated by Dr. David Dowling, Fluid Mechanics, Fifth Edition is suitable for both a first or second course in fluid mechanics at the graduate or advanced undergraduate level. The leading advanced general text on fluid mechanics, Fluid Mechanics, 5e includes a free copy of the DVD "Multimedia Fluid Mechanics," second edition. With the inclusion of the DVD, students can gain additional insight about fluid flows through nearly 1,000 fluids video clips, can conduct flow simulations in any of more than 20 virtual labs and simulations, and can view dozens of other new interactive demonstrations and animations, thereby enhancing their fluid mechanics learning experience. Text has been reorganized to provide a better flow from topic to topic and to consolidate portions that belong together. Changes made to the book's pedagogy accommodate the needs of students who have completed minimal prior study of fluid mechanics. More than 200 new or revised end-of-chapter problems illustrate fluid mechanical principles and draw on phenomena that can be observed in everyday life. Includes free Multimedia Fluid Mechanics 2e DVD

Textbook of Clinical Neuropsychology

Taylor & Francis The first edition of the Textbook of Clinical Neuropsychology set a new standard in the field in its scope, breadth, and scholarship. The second edition comprises authoritative chapters that will both enlighten and challenge readers from across allied fields of neuroscience, whether novice, mid-level, or senior-level professionals. It will familiarize the young trainee through to the accomplished professional with fundamentals of the science of neuropsychology and its vast body of research, considering the field's historical underpinnings, its evolving practice and research methods, the application of science to informed practice, and recent developments and relevant cutting edge work. Its precise commentary recognizes obstacles that remain in our clinical and research endeavors and emphasizes the prolific innovations in interventional techniques that serve the field's ultimate aim: to better understand brain-behavior relationships and facilitate adaptive functional competence in patients. The second edition contains 50 new and completely revised chapters written by some of the profession's most recognized and prominent scholar-clinicians, broadening the scope of coverage of the ever expanding field of neuropsychology and its relationship to related neuroscience and psychological practice domains. It is a natural evolution of what has become a comprehensive reference textbook for neuropsychology practitioners.

Data-Intensive Computing

Architectures, Algorithms, and Applications

Cambridge University Press Describes principles of the emerging field of data-intensive computing, along with methods for designing, managing and analyzing the big data sets of today.

Autonomous Architecture

The Block Cipher Companion

Springer Science & Business Media Block ciphers encrypt blocks of plaintext, messages, into blocks of ciphertext under the action of a secret key, and the process of encryption is reversed by decryption which uses the same user-supplied key. Block ciphers are fundamental to modern cryptography, in fact they are the most widely used cryptographic primitive - useful in their own right, and in the construction of other cryptographic mechanisms. In this book the authors provide a technically detailed, yet readable, account of the state of the art of block cipher analysis, design, and deployment. The authors first describe the most prominent block ciphers and give insights into their design. They then consider the role of the cryptanalyst, the adversary, and provide an overview of some of the most important cryptanalytic methods. The book will be of value to graduate and senior undergraduate students of cryptography and to professionals engaged in cryptographic design. An important feature of the presentation is the authors' exhaustive bibliography of the field, each chapter closing with comprehensive supporting notes.

Primary Care Mental Health

Cambridge University Press Around ninety per cent of all patients with mental health problems are managed solely in primary care, including thirty-fifty per cent of all those with serious mental illness. Primary care plays an increasingly essential role in developing and delivering mental health services, and in the wellbeing of communities. In this book, internationally respected authors provide both a conceptual background and practical advice for primary care clinicians and specialist mental health professionals liaising with primary care. Clinical, policy and professional issues, such as working effectively at the interface between services, are addressed - with a key focus on patient and service user experience. Following the highly successful first edition, which was awarded first prize at the BMA Medical Book Awards in the category of Primary Health Care, this fully updated volume includes new chapters on mental health and long-term physical conditions, prison populations, improving access to care and public mental health.