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The Theory and Practice of 3D PET Springer

* Examines the various methods available for circuit protection, including coverage of the newly developed ESD circuit protection schemes for VLSI circuits. * Provides guidance on the implementation of circuit protection measures. * Includes new sections on ESD design rules, layout approaches, package effects, and circuit concepts. * Reviews the new Charged Device Model (CDM) test method and evaluates design requirements necessary for circuit protection.

Detecting Concealed Information and Deception Springer

Computational Geosciences with Mathematica is the only book written by a geologist specifically to show geologists and geoscientists how to use Mathematica to formulate and solve problems. It spans a broad range of geologic and mathematical topics, which are drawn from the author's extensive experience in research, consulting, and teaching. The reference and text leads readers step-by-step through geologic applications such as custom graphics programming, data input and output, linear and differential equations, linear and nonlinear regression, Monte Carlo simulation, time series and image analysis, and the visualization and analysis of geologic surfaces. It is packed with actual Mathematica output and includes boxed Computer Notes with tips and exploration suggestions.

Human Safety and Risk Management Ballantine Books

This book constitutes the refereed joint proceedings of the International Workshop on Bio-Imaging and Visualization for Patient-Customized Simulations, BIVPCS 2017, and the International Workshop on Point-of-Care Ultrasound, POCUS 2017, held in conjunction with the 20th International Conference on Medical Imaging and Computer-Assisted Intervention, MICCAI 2017, in Québec City, QC, Canada, in September 2017. The 12 full papers presented at BIVPCS 2017 and the 7 full papers presented at POCUS 2017 were carefully reviewed and selected. The papers feature research from complementary fields such as signal and image processing, mechanics, computational vision, mathematics, physics, informatics, computer graphics, bio-medical-practice, psychology and industry as well as ultrasound image systems applications.

Movement Control Springer Science & Business Media

Early in 1985, a meeting was held to discuss the organization of a workshop in honour of Professor Reinier L. Zielhuis on the occasion of his retirement on November 30, 1986. Various themes for such a workshop were considered, but it was Zielhuis himself, who ultimately selected "Health surveillance of individual workers exposed to chemical agents" as the theme of the workshop. Although this topic is of the utmost im

portance for occupational health practice, it is also a very difficult one, given our currently limited knowledge on the subject. The choice of this topic is characteristic of Reinier Zielhuis, a scientist and scholar who throughout his career has been deeply concerned with the health and health risks of workers. Because he regards occupational and environmental exposure - including life style - as two aspects of the total exposure to chemical and physical factors, he emphasizes the need to assess the impact of this total exposure on workers' health. The impact of total exposure probably detennines to a large extent the in dividual variability in response. This was the main reason why he selected the above-mentioned topic for the workshop.

Pro TBB John Wiley & Sons

Image registration is the process of systematically placing separate images in a common frame of reference so that the information they contain can be optimally integrated or compared. This is becoming the central tool for image analysis, understanding, and visualization in both medical and scientific applications. Medical Image Registration provid

Health Behavior John Wiley & Sons

Detecting Concealed Information and Deception: Recent Developments assembles contributions from the world's leading experts on all aspects of concealed information detection. This reference examines an array of different methods—behavioral, verbal interview and physiological—of detecting concealed information. Chapters from leading legal authorities address how to make use of detected information for present and future legal purposes. With a theoretical and empirical foundation, the book also covers new human interviewing techniques, including the highly influential Implicit Association Test among others. Presents research from Concealed Information Test (CIT) studies Explores the legal implications and admissibility of the CIT Covers EEG, event-related brain potentials (ERP) and autonomic detection measures Reviews multiple verbal lie detection tools Discusses ocular movements during deception and evasion Identifies how to perceive malicious intentions Explores personality dimensions associated with deception, including religion, age and gender

Computational Geosciences with Mathematica Cambridge University Press

This Dictionary covers information and communication technology (ICT), including

hardware and software; information networks, including the Internet and the World Wide Web; automatic control; and ICT-related computer-aided fields. The Dictionary also lists abbreviated names of relevant organizations, conferences, symposia and workshops. This reference is important for all practitioners and users in the areas mentioned above, and those who consult or write technical material. This Second Edition contains 10,000 new entries, for a total of 33,000.

Ask a Manager Hphr

What Is BCI2000? BCI2000 is a general-purpose software platform for brain-computer interface (BCI) research. It can also be used for a wide variety of data acquisition, stimulus presentation, and brain monitoring applications. BCI2000 has been in development since 2000 in a project led by the Brain-Computer Interface R&D Program at the Wadsworth Center of the New York State Department of Health in Albany, New York, USA, with substantial contributions by the Institute of Medical Psychology and Behavioral Neurobiology at the University of Tübingen, Germany. In addition, many laboratories around the world, most notably the BrainLab at Georgia State University in Atlanta, Georgia, and Fondazione Santa Lucia in Rome, Italy, have also played an important role in the project's development. Mission The mission of the BCI2000 project is to facilitate research and the development of applications in all areas that depend on real-time acquisition, processing, and feedback of biosignals. Vision Our vision is that BCI2000 will become a widely used software tool for diverse areas of research and development.

Algebraic Methods: Theory, Tools and Applications UNESCO

Here's what you should know to squeeze all the functionality you can from your BlackBerry.

Community/public Health Nursing CRC Press
A Combined MRI and Histology Atlas of the Rhesus Monkey Brain in Stereotaxic Coordinates, Second Edition maps the detailed architectonic subdivisions of the cortical and subcortical areas in the macaque monkey brain using high-resolution magnetic resonance (MR) images and the corresponding histology sections in the same animal. This edition of the atlas is unlike anything else available as it includes the detailed cyto- and chemoarchitectonic delineations of the brain areas in all three planes of sections (horizontal, coronal, and sagittal) that are derived from the same animal. This is a significant progress because in functional imaging studies, such as fMRI, both the horizontal and sagittal planes of sections are often the preferred planes given that multiple functionally active regions can be visualized simultaneously in a single horizontal or

sagittal section. This combined MRI and histology atlas is designed to provide an easy-to-use reference for anatomical and physiological studies in macaque monkeys, and in functional-imaging studies in human and non-human primates using fMRI and PET. The first rhesus monkey brain atlas with horizontal, coronal, and sagittal planes of sections, derived from the same animal Shows the first detailed delineations of the cortical and subcortical areas in horizontal, coronal, and sagittal plane of sections in the same animal using different staining methods Horizontal series illustrates the dorsoventral extent of the left hemisphere in 47 horizontal MRI and photomicrographic sections matched with 47 detailed diagrams (Chapter 3) Coronal series presents the full rostrocaudal extent of the right hemisphere in 76 coronal MRI and photomicrographic sections, with 76 corresponding drawings (Chapter 4) Sagittal series shows the complete mediolateral extent of the left hemisphere in 30 sagittal MRI sections, with 30 corresponding drawings (Chapter 5). The sagittal series also illustrates the location of different fiber tracts in the white matter Individual variability - provides selected cortical and subcortical areas in three-dimensional MRI (horizontal, coronal, and sagittal MRI planes). For comparison, it also provides similar areas in coronal MRI section in six other monkeys. (Chapter 6) Vasculature - indicates the corresponding location of all major blood vessels in horizontal, coronal, and sagittal series of sections Provides updated information on the cortical and subcortical areas, such as architectonic areas and nomenclature, with references, in chapter 2 Provides the stereotaxic grid derived from the in-vivo MR image
Health Surveillance of Individual Workers Exposed to Chemical Agents Springer Science & Business Media
For newcomers cast into the waters to sink or swim as well as seasoned professionals who want authoritative guidance desk-side, this hefty volume updates the previous (1999) edition. It contains the work of expert contributors who rallied to the job in response to a committee's call for help (the committee was assigned to the update by the Electron
A Combined MRI and Histology Atlas of the Rhesus Monkey Brain in Stereotaxic Coordinates Academic Press
A respected resource for decades, the Guide for the Care and Use of Laboratory Animals has been updated by a committee of experts, taking into consideration input from the scientific and laboratory animal communities and the public at large. The Guide incorporates new scientific information on

common laboratory animals, including aquatic species, and includes extensive references. It is organized around major components of animal use: Key concepts of animal care and use. The Guide sets the framework for the humane care and use of laboratory animals. Animal care and use program. The Guide discusses the concept of a broad Program of Animal Care and Use, including roles and responsibilities of the Institutional Official, Attending Veterinarian and the Institutional Animal Care and Use Committee. Animal environment, husbandry, and management. A chapter on this topic is now divided into sections on terrestrial and aquatic animals and provides recommendations for housing and environment, husbandry, behavioral and population management, and more. Veterinary care. The Guide discusses veterinary care and the responsibilities of the Attending Veterinarian. It includes recommendations on animal procurement and transportation, preventive medicine (including animal biosecurity), and clinical care and management. The Guide addresses distress and pain recognition and relief, and issues surrounding euthanasia. Physical plant. The Guide identifies design issues, providing construction guidelines for functional areas; considerations such as drainage, vibration and noise control, and environmental monitoring; and specialized facilities for animal housing and research needs. The Guide for the Care and Use of Laboratory Animals provides a framework for the judgments required in the management of animal facilities. This updated and expanded resource of proven value will be important to scientists and researchers, veterinarians, animal care personnel, facilities managers, institutional administrators, policy makers involved in research issues, and animal welfare advocates.

Imaging for Patient-Customized Simulations and Systems for Point-of-Care Ultrasound
John Wiley & Sons

Research on radiation tolerant electronics has increased rapidly over the last few years, resulting in many interesting approaches to model radiation effects and design radiation hardened integrated circuits and embedded systems. This research is strongly driven by the growing need for radiation hardened electronics for space applications, high-energy physics experiments such as those on the large hadron collider at CERN, and many terrestrial nuclear applications, including nuclear energy and safety management. With the progressive scaling of integrated circuit technologies and the growing

complexity of electronic systems, their ionizing radiation susceptibility has raised many exciting challenges, which are expected to drive research in the coming decade. After the success of the first Special Issue on Radiation Tolerant Electronics, the current Special Issue features thirteen articles highlighting recent breakthroughs in radiation tolerant integrated circuit design, fault tolerance in FPGAs, radiation effects in semiconductor materials and advanced IC technologies and modelling of radiation effects.

Handbook of Executive Functioning Springer Science & Business Media

Cognitive Behavioral Therapy for Adult ADHD: An Integrative Psychosocial and Medical Approach has been revised, updated, and expanded for this second edition and remains the definitive book for clinicians seeking to treat adults with ADHD. Clinicians will continue to benefit from the presentation of an evidence-supported treatment approach for adults with ADHD that combines cognitive behavioral therapy and pharmacotherapy adapted for this challenging clinical population. The updated edition of the book offers new and expanded case examples, and the authors emphasize more detailed, clinician-friendly "how to" instructions for the delivery of specific interventions for adult patients with ADHD. Understanding that most adults with ADHD say, "I know exactly what I need to do, but I just cannot make myself do it," the book pays special attention to the use of implementation strategies to help patients carry out the necessary coping skills to achieve improvements in functioning and well-being in their daily lives. In addition to providing an outline of their treatment approach, Drs. Ramsay and Rostain provide an up-to-date review of the current scientific understanding of the etiology, developmental course, and life outcomes of adults with ADHD as well as the components of an thorough diagnostic evaluation. As an added clinical resource, Drs. Ramsay and Rostain have also produced a companion patient handbook written for adults with ADHD, *The Adult ADHD Tool Kit: Using CBT to Facilitate Coping Inside and Out*, which clinicians can use with their patients.

Software Testing and Quality Assurance National Academies Press

Metaphor has been an issue of intense research and debate for decades (see, for example [1]). Researchers in various disciplines, including linguistics, psychology, computer science, education, and philosophy have developed a variety of theories, and much progress has been made [2]. For one, metaphor is no longer considered a rhetorical flourish that is found mainly in literary texts. Rather, linguists have shown that metaphor is a pervasive phenomenon in everyday language, a major force in the development of new word meanings, and the source of at least some grammatical function words [3]. Indeed, one of the most influential theories of metaphor involves the suggestion that the commonality of metaphoric language results because cross-domain mappings are a major determinant in the organization of semantic memory, as cognitive and neural resources for dealing with concrete domains are recruited for the conceptualization of more abstract ones [4].

Researchers in cognitive neuroscience have explored whether particular kinds of brain damage are associated with metaphor production and comprehension deficits, and whether similar brain regions are recruited when healthy adults understand the literal and metaphorical meanings of the same words (see [5] for a review). Whereas early research on this topic focused on the issue of the role of hemispheric asymmetry in the comprehension and production of metaphors [6], in recent years cognitive neuroscientists have argued that metaphor is not a monolithic category, and that metaphor processing varies as a function of numerous factors, including the novelty or conventionality of a particular metaphoric expression, its part of speech, and the extent of contextual support for the metaphoric meaning (see, e.g., [7], [8], [9]). Moreover, recent developments in cognitive neuroscience point to a sensorimotor basis for many concrete concepts, and raise the issue of whether these mechanisms are ever recruited to process more abstract domains [10]. This Frontiers Research Topic brings together contributions from researchers in cognitive neuroscience whose work involves the study of metaphor in language and thought in order to promote the development of the neuroscientific investigation of metaphor. Adopting an interdisciplinary perspective, it synthesizes current findings on the cognitive neuroscience of metaphor, provides a forum for voicing novel perspectives, and promotes avenues for new research on the metaphorical brain. [1] Arbib, M. A. (1989). *The metaphorical brain 2: Neural networks and beyond*. John Wiley & Sons, Inc. [2] Gibbs Jr, R. W. (Ed.). (2008). *The Cambridge handbook of metaphor and thought*. Cambridge University Press. [3] Sweetser, Eve E. "Grammaticalization and semantic bleaching." Annual Meeting of the Berkeley Linguistics Society. Vol. 14. 2011. [4] Lakoff, G., & Johnson, M. (1999). *Philosophy in the flesh: The embodied mind and its challenge to western thought*. Basic books. [5] Coulson, S. (2008). *Metaphor comprehension and the brain*. The Cambridge handbook of metaphor and thought, 177-194. [6] Winner, E., & Gardner, H. (1977). *The comprehension of metaphor in brain-damaged patients*. *Brain*, 100(4), 717-729. [7] Coulson, S., & Van Petten, C. (2007). *A special role for the right hemisphere in metaphor comprehension?: ERP evidence from hemifield presentation*. *Brain Research*, 1146, 128-145. [8] Lai, V. T., Curran, T., & Menn, L. (2009). *Comprehending conventional and novel metaphors: An ERP study*. *Brain Research*, 1284, 145-155. [9] Schmidt, G. L., Kranjec, A., Cardillo, E. R., & Chatterjee, A. (2010). *Beyond laterality: a critical assessment of research on the neural basis of metaphor*. *Journal of the International Neuropsychological Society*, 16(01), 1-5. [10] Desai, R. H., Binder, J. R., Conant, L. L., Mano, Q. R., & Seidenberg, M. S. (2011). *The neural career of sensory-motor metaphors*. *Journal of Cognitive Neuroscience*, 23(9), 2376-2386.

Dictionary of Acronyms and Technical Abbreviations HP Books

Significant progress has been made in advanced packaging in recent years. Several new packaging techniques have been developed and new packaging materials have been introduced. This book provides a comprehensive overview of the recent developments in this industry, particularly in the areas of microelectronics, optoelectronics, digital health, and bio-

medical applications. The book discusses established techniques, as well as emerging technologies, in order to provide readers with the most up-to-date developments in advanced packaging.

Drebrin John Wiley & Sons

This anthology aims to present the fundamental philosophical issues and tools required by the reflection within and upon geography and Geographic Information Systems (GIS). It is an introduction to the philosophy for GIScience from an analytical perspective, which looks at GIS with a specific focus on its fundamental and most general concepts and distinctions. The first part of the book is devoted to explore some of the main philosophical questions arising from GIS and GIScience, which include, among others, investigations in ontology, epistemology, linguistics and geometrical modeling. The second part concerns issues related to spatial and cartographical representations of the geographical world. The third part is focused on the ontology of geography, specifically in terms of geographical entities, objects and boundaries. Finally, in the fourth part, the topic of GIS constitutes a starting point for exploring themes such as quantum geography and disorientation, and for defining professional profiles for geographers with competences in GIS environment. This book on a new and unexplored field of research could be a fundamental point of reference for professional philosophers and geographers interested in the theoretical reflection about the foundational concepts of GIScience. It is also interesting reading material for students (both undergraduates, postgraduates and Ph.D. students) in philosophy, geography, applied ontology, GIScience, geomatics and computer science.

Medical Image Registration World Health Organization

The application of 3D methodology has recently been receiving increasing attention at many PET centres, and this monograph is an attempt to provide a state-of-the-art review of this methodology, covering 3D reconstruction methods, quantitative procedures, current tomography performance, and clinical and research applications. No such review has been available until now to assist PET researchers in understanding and implementing 3D methodology, and in evaluating the performance of the available imaging technology. In all the chapters, the subject matter is treated in sufficient depth to appeal equally to the physicist or engineer who wishes to establish the methodology, and to PET investigators with experience in 2D PET who wish to familiarize themselves with the concepts and advantages of 3D, and to be made aware of the pitfalls.

Cognitive Behavioral Therapy for Adult ADHD Frontiers Media SA

A superior primer on software testing and quality

assurance, from integration to execution and automation This important new work fills the pressing need for a user-friendly text that aims to provide software engineers, software quality professionals, software developers, and students with the fundamental developments in testing theory and common testing practices. *Software Testing and Quality Assurance: Theory and Practice* equips readers with a solid understanding of: Practices that support the production of quality software Software testing techniques Life-cycle models for requirements, defects, test cases, and test results Process models for units, integration, system, and acceptance testing How to build test teams, including recruiting and retaining test engineers Quality Models, Capability Maturity Model, Testing Maturity Model, and Test Process Improvement Model Expertly balancing theory with practice, and complemented with an abundance of pedagogical tools, including test questions, examples, teaching suggestions, and chapter summaries, this book is a valuable, self-contained tool for professionals and an ideal introductory text for courses in software testing, quality assurance, and software engineering.

Radiation Tolerant Electronics, Volume II
Springer

Reflecting a decade's worth of changes, *Human Safety and Risk Management, Second Edition* contains new chapters addressing safety culture and models of risk as well as an extensive re-working of the material from the earlier edition. Examining a wide range of approaches to risk, the authors define safety culture and review theoretical models that elucidate mechanisms linking safety culture with safety performance. Filled with practical examples and case studies and drawing on a range of disciplines, the book explores individual differences and the many ways in which human beings are alike within a risk and safety context. It delineates a risk management approach that includes a range of techniques such as risk assessment, safety audit, and safety interventions. The authors address concepts central to workplace safety such as attitudes and their link with behavior. They discuss managing behavior in work environments including key functions and benefits of groups, factors influencing team effectiveness, and barriers to effectiveness such as groupthink.