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Topics in Anti-Cancer Research: Volume 10 Jun 23 2020 Topics in Anti-Cancer Research covers new developments in the field of cancer diagnosis and drug therapy. Novel drugs as anticancer agents include natural and synthetic phenazirines and other anti-cancer compounds. The series also covers information on the current understanding of the pathology and molecular biology of specific neoplasms. The diversity of research topics published in this book series give broad and valuable perspectives for cancer researchers, clinicians, cancer professionals aiming to develop novel anti-cancer targets and patents for the treatment of various cancers. The topics covered in this volume are: - Peptides can play a major role in combating cancer diseases - Studying of the CLL after treatment using fractal parameter of neoplastic lymphocytes detection (?NLD) - Mechanistic insight of rhenium-based compounds as anti- cancer agents - Targeting cancer-specific inflammatory components in cancer therapeutics - Marine natural products as a source of novel anticancer agents: a treasure from the ocean - PDX clinical trial design in anti-cancer research

Design Recommendations for Intelligent Tutoring Systems: Volume 4 - Domain Modeling May 15 2022 Design Recommendations for Intelligent Tutoring Systems (ITSs) explores the impact of intelligent tutoring system design on education and training. Specifically, this volume examines “Domain Modeling”. The “Design Recommendations book series examines tools and methods to reduce the time and skill required to develop Intelligent Tutoring Systems with the goal of improving the Generalized Intelligent Framework for Tutoring (GIFT). GIFT is a modular, service-oriented architecture developed to capture simplified authoring techniques, promote reuse and standardization of ITSs along with automated instructional techniques and effectiveness evaluation capabilities for adaptive tutoring tools and methods.

Measurement, Instrumentation, and Sensors Handbook Nov 16 2019 This new edition of the bestselling Measurement, Instrumentation, and Sensors Handbook brings together all aspects of the design and implementation of measurement, instrumentation, and sensors. Reflecting the current state of the art, it describes the use of instruments and techniques for performing practical measurements in engineering, physics, chemistry, and the life sciences; explains sensors and the associated hardware and software; and discusses processing systems, automatic data acquisition, reduction and analysis, operation characteristics, accuracy, errors, calibrations, and the incorporation of standards for control purposes. Organized according to measurement problem, the Second Edition: Consists of 2 volumes Features contributions from 240+ field experts Contains 53 new chapters, plus updates to all 194 existing chapters Addresses different ways of making measurements for given variables Emphasizes modern intelligent instruments and techniques, human factors, modern display methods, instrument networks, and virtual instruments Explains modern wireless techniques, sensors, measurements, and applications A concise and useful reference for engineers, scientists, academic faculty, students, designers, managers, and industry professionals involved in instrumentation and measurement research and development, Measurement, Instrumentation, and Sensors Handbook, Second Edition provides readers with a greater understanding of advanced applications.

Pharmaco-Imaging in Drug and Biologics Development Oct 28 2020 The volume aim to be a comprehensive overview of the drug and biologic development process that is often called “the valley of death” (pre-IND through approval) where high costs of studies and high rates of product failure are part of the drug development landscape. Imaging tools can serve in this period by adding high value data, the images and the kinetic information they can provide, and cost-effective development alternative tools which potentially improve pivotal study designs. Imaging may identify safety issues early such as unwanted organ or tissue distributions, and then can serve advanced development with added certainty of a drug or biologic’s success to senior corporate management and investors. There are numerous textbooks, reference texts and treatises on medical imaging technologies, teaching tools on medical cases and physics books on the science of detector and computer interface systems. Rarely, in each of these are examples of medical imaging protocols and animal models of disease i.e. a text on methodology in drug development is currently unavailable.

Residual Stress, Thermomechanics & Infrared Imaging, Hybrid Techniques and Inverse Problems, Volume 9 Jul 05 2021 Residual Stress, Thermomechanics & Infrared Imaging, Hybrid Techniques and Inverse Problems, Volume 9 of the Proceedings of the 2016 SEM Annual Conference & Exposition on Experimental and Applied Mechanics, the ninth volume of ten from the Conference, brings together contributions to this important area of research and engineering. The collection presents early findings and case studies on a wide range of areas, including: Damage Analysis from Thermal Measurements Quantitative Visualization Stress Analysis from Thermal Measurements New Approaches to Residual Stress Measurement Residual Stress & Optical Methods Non-homogeneous Parameters Identification General Inverse Methods Residual Stress Measurement by X-Ray Diffraction

Global Radical Islamist Insurgency: AL QAEDA AND ISLAMIC STATE NETWORKS FOCUS Nov 28 2020 This anthology—the second of an initial two volume set—specifically covers Small Wars Journal writings on Al Qaeda and the Islamic State spanning the years 2012-2014. This set is meant to contribute to U.S. security debates focusing on radical Islamist global insurgency by collecting diverse SWJ essays into more easily accessible formats. Small Wars Journal has long been a leader in insurgency and counterinsurgency research and scholarship with an emphasis on practical applications and policy outcomes in furtherance of U.S. global and allied nation strategic interests. The site is able to lay claim to supporting the writings of many COIN (counterinsurgency) practitioners. This includes Dr. David Kilcullen whose early work dating from late 2004 “Countering Global Insurgency” helped to lay much of the conceptual basis focusing on this threat and as a result greatly helped to facilitate the writings that were later incorporated into these Al Qaeda and Islamic State focused anthologies. This volume is composed of sixty-six chapters divided into sections on a) radical Islamist OPFORs (opposition forces) and context and b) U.S.—allied policy and counter radical Islamist strategies. The work also contains a preface by Matt Begert, a foreword by Dr. Daveed Gartenstein-Ross and Bridget Moreng, an introduction, a postscript, an extensive notes section, and editor and contributor biographies on sixty-four individuals as well as an acronyms listing and an initial ‘About SWJ’ and foundation section.

Design Recommendations for Intelligent Tutoring Systems: Volume 8 - Data Visualization Jan 23 2023 This book on data visualization is the eighth in a planned series of books that examine key topics (e.g., learner modeling, instructional strategies, authoring, domain modeling, assessment, team tutoring, self-improving systems, data visualization, and competency based scenario design) in intelligent tutoring system (ITS) design. This book focuses on data visualization and how it is applied in ITSs. The chapters within this book specifically examine topics in relationship to the Generalized Intelligent Framework

for Tutoring (GIFT) (Sottolare, Brawner, Goldberg & Holden, 2012; Sottolare, Brawner, Sinatra, & Johnston, 2017). GIFT is an open-source, domain-independent, modular, service-oriented architecture for ITSs. The design of GIFT allows for reusability, reduction in authoring time, and reducing the skill level needed to create an ITS. GIFT provides functionality to create ITSs, distribute ITSs to learners through the Cloud, conduct research to evaluate ITSs, and to examine instructional outcomes. Data visualization is an important topic for ITSs, as there are many different users of the systems (including learners, instructors, researchers, subject matter experts). The data that is collected by the ITS can be organized and displayed in a number of different ways. The current book includes a general discussion of how data visualizations can be applied in ITSs, as well as detailed specific examples of existing implementations, and technical details related to incorporating data visualization in ITSs. We believe this book can be used as a design tool for data visualization interfaces in ITSs.

Building an Effective Security Program for Distributed Energy Resources and Systems Apr 21 2020 Building an Effective Security Program for Distributed Energy Resources and Systems Build a critical and effective security program for DERs Building an Effective Security Program for Distributed Energy Resources and Systems requires a unified approach to establishing a critical security program for DER systems and Smart Grid applications. The methodology provided integrates systems security engineering principles, techniques, standards, and best practices. This publication introduces engineers on the design, implementation, and maintenance of a security program for distributed energy resources (DERs), smart grid, and industrial control systems. It provides security professionals with understanding the specific requirements of industrial control systems and real-time constrained applications for power systems. This book: Describes the cybersecurity needs for DERs and power grid as critical infrastructure Introduces the information security principles to assess and manage the security and privacy risks of the emerging Smart Grid technologies Outlines the functions of the security program as well as the scope and differences between traditional IT system security requirements and those required for industrial control systems such as SCADA systems Offers a full array of resources— cybersecurity concepts, frameworks, and emerging trends Security Professionals and Engineers can use Building an Effective Security Program for Distributed Energy Resources and Systems as a reliable resource that is dedicated to the essential topic of security for distributed energy resources and power grids. They will find standards, guidelines, and recommendations from standards organizations, such as ISO, IEC, NIST, IEEE, ENISA, ISA, ISACA, and ISF, conveniently included for reference within chapters.

How Humans Recognize Objects: Segmentation, Categorization and Individual Identification Feb 12 2022 Human beings experience a world of objects: bounded entities that occupy space and persist through time. Our actions are directed toward objects, and our language describes objects. We categorize objects into kinds that have different typical properties and behaviors. We regard some kinds of objects – each other, for example – as animate agents capable of independent experience and action, while we regard other kinds of objects as inert. We re-identify objects, immediately and without conscious deliberation, after days or even years of non-observation, and often following changes in the features, locations, or contexts of the objects being re-identified. Comparative, developmental and adult observations using a variety of approaches and methods have yielded a detailed understanding of object detection and recognition by the visual system and an advancing understanding of haptic and auditory information processing. Many fundamental questions, however, remain unanswered. What, for example, physically constitutes an “object”? How do specific, classically-characterizable object boundaries emerge from the physical dynamics described by quantum theory, and can this emergence process be described independently of any assumptions regarding the perceptual capabilities of observers? How are visual motion and feature information combined to create object information? How are the object trajectories that indicate persistence to human observers implemented, and how are these trajectory representations bound to feature representations? How, for example, are point-light walkers recognized as single objects? How are conflicts between trajectory-driven and feature-driven identifications of objects resolved, for example in multiple-object tracking situations? Are there separate “what” and “where” processing streams for haptic and auditory perception? Are there haptic and/or auditory equivalents of the visual object file? Are there equivalents of the visual object token? How are object-identification conflicts between different perceptual systems resolved? Is the common assumption that “persistent object” is a fundamental innate category justified? How does the ability to identify and categorize objects relate to the ability to name and describe them using language? How are features that an individual object had in the past but does not have currently represented? How are categorical constraints on how objects move or act represented, and how do such constraints influence categorization and the re-identification of individuals? How do human beings re-identify objects, including each other, as persistent individuals across changes in location, context and features, even after gaps in observation lasting months or years? How do human capabilities for object categorization and re-identification over time relate to those of other species, and how do human infants develop these capabilities? What can modeling approaches such as cognitive robotics tell us about the answers to these questions? Primary research reports, reviews, and hypothesis and theory papers addressing questions relevant to the understanding of perceptual object segmentation, categorization and individual identification at any scale and from any experimental or modeling perspective are solicited for this Research Topic. Papers that review particular sets of issues from multiple disciplinary perspectives or that advance integrative hypotheses or models that take data from multiple experimental approaches into account are especially encouraged.

Encyclopedia of Plasma Technology - Two Volume Set Jul 17 2022 Technical plasmas have a wide range of industrial applications. The Encyclopedia of Plasma Technology covers all aspects of plasma technology from the fundamentals to a range of applications across a large number of industries and disciplines. Topics covered include nanotechnology, solar cell technology, biomedical and clinical applications, electronic materials, sustainability, and clean technologies. The book bridges materials science, industrial chemistry, physics, and engineering, making it a must have for researchers in industry and academia, as well as those working on application-oriented plasma technologies. Also Available Online This Taylor & Francis encyclopedia is also available through online subscription, offering a variety of extra benefits for researchers, students, and librarians, including: Citation tracking and alerts Active reference linking Saved searches and marked lists HTML and PDF format options Contact Taylor and Francis for more information or to inquire about subscription options and print/online combination packages. US: (Tel) 1.888.318.2367; (E-mail) e-reference@taylorandfrancis.com International: (Tel) +44 (0) 20 7017 6062; (E-mail) online.sales@tandf.co.uk

Information Resources in Toxicology May 03 2021 This new fifth edition of Information Resources in Toxicology offers a consolidated entry portal for the study, research, and practice of toxicology. Both volumes represents a unique, wide-ranging, curated, international, annotated bibliography, and directory of major resources in toxicology and allied fields such as environmental and occupational health, chemical safety, and risk assessment. The editors and authors are among the leaders of the profession sharing their cumulative wisdom in toxicology’s subdisciplines. This edition keeps pace with the digital world in directing and linking readers to relevant websites and other online tools. Due to the increasing size of the hardcopy publication, the current edition has been divided into two volumes to make it easier to handle and consult. Volume 1: Background, Resources, and Tools, arranged in 5 parts, begins with chapters on the science of toxicology, its history, and informatics framework in Part 1. Part 2 continues with chapters organized by more specific subject such as cancer, clinical toxicology, genetic toxicology, etc. The categorization of chapters by resource format, for example, journals and

newsletters, technical reports, organizations constitutes Part 3. Part 4 further considers toxicology's presence via the Internet, databases, and software tools. Among the miscellaneous topics in the concluding Part 5 are laws and regulations, professional education, grants and funding, and patents. Volume 2: The Global Arena offers contributed chapters focusing on the toxicology contributions of over 40 countries, followed by a glossary of toxicological terms and an appendix of popular quotations related to the field. The book, offered in both print and electronic formats, is carefully structured, indexed, and cross-referenced to enable users to easily find answers to their questions or serendipitously locate useful knowledge they were not originally aware they needed. Among the many timely topics receiving increased emphasis are disaster preparedness, nanotechnology, -omics, risk assessment, societal implications such as ethics and the precautionary principle, climate change, and children's environmental health. Introductory chapters provide a backdrop to the science of toxicology, its history, the origin and status of toxicoinformatics, and starting points for identifying resources. Offers an extensive array of chapters organized by subject, each highlighting resources such as journals, databases, organizations, and review articles. Includes chapters with an emphasis on format such as government reports, general interest publications, blogs, and audiovisuals. Explores recent internet trends, web-based databases, and software tools in a section on the online environment. Concludes with a miscellany of special topics such as laws and regulations, chemical hazard communication resources, careers and professional education, K-12 resources, funding, poison control centers, and patents. Paired with Volume Two, which focuses on global resources, this set offers the most comprehensive compendium of print, digital, and organizational resources in the toxicological sciences with over 120 chapters contributions by experts and leaders in the field.

Sorceress Volume Two Oct 20 2022 He's one of the hottest new sensations in fantasy art today. Mike Hoffman's fan base grows every day, as his retro-style catches the imagination, and his style brings a smile to the face. Here in this new collection of his work which also includes a special full-colour section, which shows off more of Hoffman's paintings. There are still plenty of fabulous black-and-white images as well!

Mechanics of Composite, Hybrid and Multifunctional Materials, Volume 5 Nov 21 2022 Mechanics of Composite, Hybrid, and Multifunctional Materials, Volume 5 of the Proceedings of the 2018 SEM Annual Conference & Exposition on Experimental and Applied Mechanics, the fifth volume of eight from the Conference, brings together contributions to this important area of research and engineering. The collection presents early findings and case studies on a wide range of areas, including: Recycled Constituent Composites Nanocomposites Mechanics of Composites Fracture & Fatigue of Composites Multifunctional Materials Damage Detection & Non-destructive Evaluation Composites for Wind Energy & Aerospace Applications Computed Tomography of Composites Manufacturing & Joining of Composites Novel Developments in Composites

Mathematical Morphology and Its Applications to Signal and Image Processing Sep 19 2022 This book contains the thoroughly refereed proceedings of the 12th International Symposium on Mathematical Morphology, ISMM 2015 held in Reykjavik, Iceland, in May 2015. The 62 revised full papers were carefully reviewed and selected from 72 submissions. The papers are organized in topical sections on evaluations and applications; hierarchies; color, multivalued and orientation fields; optimization, differential calculus and probabilities; topology and discrete geometry; and algorithms and implementation.

The Preservation Management Handbook Mar 13 2022 "Museum curators, museum professionals, archivists and librarians from small local history museums to world-famous art and natural history collections, must deploy their specialized knowledge to prioritize the needs of their collections. This revised volume has a wide range of topic-specific expertise that comprises both an enduring text for preservation students as well as an essential one-stop reference for cultural heritage professionals where resources are limited and professional help is not always at hand"--

Tsunamis Dec 10 2021 This Special Publication examines tsunami hazard and risk, with particular focus on using the geological record. With Earth's growing population clustered increasingly on coastlines, tsunami hazards are of concern worldwide. The papers explore the sedimentological and dynamic traces of recent and prehistoric tsunamis globally – from Europe to the Pacific – as well as looking at historic records and how the information can be used to characterise the scale of impacts and areas that are most susceptible to tsunami hazards. Armed with this information, scientists can begin to quantify risks, both to populations and in economic terms. This volume is aimed both at scientists working in this field and at a wider community, interested in tsunami science and natural hazard assessment.

SM Swift Compre Aug 18 2022

Wildland Fire Dynamics Jan 11 2022 Wildland fires are among the most complicated environmental phenomena to model. Fire behavior models are commonly used to predict the direction and rate of spread of wildland fires based on fire history, fuel, and environmental conditions; however, more sophisticated computational fluid dynamic models are now being developed. This quantitative analysis of fire as a fluid dynamic phenomenon embedded in a highly turbulent flow is beginning to reveal the combined interactions of the vegetative structure, combustion-driven convective effects, and atmospheric boundary layer processes. This book provides an overview of the developments in modeling wildland fire dynamics and the key dynamical processes involved. Mathematical and dynamical principles are presented, and the complex phenomena that arise in wildland fire are discussed. Providing a state-of-the-art survey, it is a useful reference for scientists, researchers, and graduate students interested in wildland fire behavior from a broad range of fields.

The History of Big Safari Dec 18 2019 For more than half a century, Big Safari-modified aircraft have performed dangerous and essential missions to collect intelligence, conduct surveillance and reconnaissance, and engage in special operations missions around the globe in the interest of national security. These state-of-the-art aircraft have been flown, operated, and maintained by men and women whose dedication and commitment have made the world a safer place. In *The History of Big Safari*, author Colonel Bill Grimes, a retired US Air Force officer, presents a history of this program, which has been in existence for more than sixty years. Born as a special acquisition program in 1952, Big Safari has been in a unique position to save lives by rapidly fielding essential systems with a quick-reaction capability to ensure decision makers on the battlefield and at the Pentagon have timely intelligence to plan and execute operations. Grimes shows how, without a special acquisition program such as Big Safari, the nation's ability to react to evolving dangers and threats would be mired in bureaucracy when timely responses are critical. With detailed cutaway illustrations revealing aircraft modifications and mission equipment, *The History of Big Safari* also includes photographs, sidebars, and anecdotes. It goes behind the scenes with the men and women who participated in the challenging projects and daring missions. It shares the development of cutting-edge technology and special mission aircraft, as well as the global events that necessitated these once-classified programs. Finally, it provides insight into long-veiled projects, operations, and missions that comprise the world under the purview of Big Safari.

Climate Change Impacts on Fisheries and Aquaculture, 2 Volumes Apr 14 2022 The first comprehensive review of the current and future effects of climate change on the world's fisheries and aquaculture operations The first book of its kind, *Climate Change Impacts on Fisheries and Aquaculture* explores the impacts of climate change on global fisheries resources and on marine aquaculture. It also

offers expert suggestions on possible adaptations to reduce those impacts. The world's climate is changing more rapidly than scientists had envisioned just a few years ago, and the potential impact of climate change on world food production is quite alarming. Nowhere is the sense of alarm more keenly felt than among those who study the warming of the world's oceans. Evidence of the dire effects of climate change on fisheries and fish farming has now mounted to such an extent that the need for a book such as this has become urgent. A landmark publication devoted exclusively to how climate change is affecting and is likely to affect commercially vital fisheries and aquaculture operations globally, *Climate Change Impacts on Fisheries and Aquaculture* provides scientists and fishery managers with a summary of and reference point for information on the subject which has been gathered thus far. Covers an array of critical topics and assesses reviews of climate change impacts on fisheries and aquaculture from many countries, including Japan, Mexico, South Africa, Australia, Chile, US, UK, New Zealand, Pacific Islands, India and others Features chapters on the effects of climate change on pelagic species, cod, lobsters, plankton, macroalgae, seagrasses and coral reefs Reviews the spread of diseases, economic and social impacts, marine aquaculture and adaptation in aquaculture under climate change Includes special reports on the Antarctic Ocean, the Caribbean Sea, the Arctic Ocean and the Mediterranean Sea Extensive references throughout the book make this volume both a comprehensive text for general study and a reference/guide to further research for fisheries scientists, fisheries managers, aquaculture personnel, climate change specialists, aquatic invertebrate and vertebrate biologists, physiologists, marine biologists, economists, environmentalist biologists and planners.

Nuclear Non-Proliferation in International Law - Volume V Oct 08 2021 This fifth volume in the book series on Nuclear Non-Proliferation in International Law focuses on various legal aspects regarding nuclear security and nuclear deterrence. The series on Nuclear Non-Proliferation in International Law provides scholarly research articles with critical commentaries on relevant treaty law, best practice and legal developments, thus offering an academic analysis and information on practical legal and diplomatic developments both globally and regionally. It sets a basis for further constructive discourse at both national and international levels. Jonathan L. Black-Branch is Dean of Law and Professor of International and Comparative Law at the University of Manitoba in Canada; a Bencher of the Law Society of Manitoba; JP and Barrister (England & Wales); Barrister & Solicitor (Manitoba); and Chair of the International Law Association (ILA) Committee on Nuclear Weapons, Non-Proliferation & Contemporary International Law. Dieter Fleck is Former Director International Agreements & Policy, Federal Ministry of Defence, Germany; Member of the Advisory Board of the Amsterdam Center for International Law (ACIL); and Rapporteur of the International Law Association (ILA) Committee on Nuclear Weapons, Non-Proliferation & Contemporary International Law.

Remotely Piloted Aircraft Systems Jan 19 2020 Highlights the human components of Remotely Piloted Aircraft Systems, their interactions with the technology and each other, and the implications of human capabilities and limitations for the larger system Considers human factors issues associated with RPAS, but within the context of a very large system of people, other vehicles, policy, safety concerns, and varying applications Chapters have been contributed by world class experts in HSI and those with operational RPAS experience Considers unintended consequences associated with taking a more myopic view of this system Examines implications for practice, policy, and research Considers both civil and military aspects of RPAS

Frontiers in Clinical Drug Research - Diabetes and Obesity: Volume 4 Dec 30 2020 Frontiers in Clinical Drug Research – Diabetes and Obesity is an eBook series that brings updated reviews to readers interested in advances in the development of pharmaceutical agents for the treatment of two metabolic diseases – diabetes and obesity. The scope of the eBook series covers a range of topics including the medicinal chemistry, pharmacology, molecular biology and biochemistry of natural and synthetic drugs affecting endocrine and metabolic processes linked with diabetes and obesity. Reviews in this series also include research on specific receptor targets and pre-clinical / clinical findings on novel pharmaceutical agents. Frontiers in Clinical Drug Research – Diabetes and Obesity is a valuable resource for pharmaceutical scientists and postgraduate students seeking updated and critically important information for developing clinical trials and devising research plans in the field of diabetes and obesity research. The fourth volume of this series features 7 chapters: -Pharmacologic Obesity Treatment -Interplay Between Bile Acid and GLP-1 Receptor Agonist Signaling Informs the Design of Drugs to Combat Obesity and its Metabolic Complications -Sodium-Glucose Co-Transporters Inhibitors for Type 2 Diabetes Mellitus -The Effects of Traditional Chinese Medicine on Inflammatory Cytokines in Diabetic Nephropathy -Through the Perspective of Histology – The Alzheimer’s Disease Promotion by Obesity and Glucose Metabolism: Type 3 Diabetes -Pharmacological Mechanism of PPAR? Ratio in Diabetes and Obesity -Hydrogen Sulfide and Carbohydrate Metabolism

Phytochemistry, 3-Volume Set Aug 06 2021 The 3-volume set, *Phytochemistry*, covers a wide selection of topics in phytochemistry and provides a wealth of information on the fundamentals, new applications, methods and modern analytical techniques, state-of-the-art approaches, and computational techniques. With chapters from professional specialists in their fields from around the world, the volumes deliver a comprehensive coverage of phytochemistry. Phytochemistry is a multidisciplinary field, so this book will appeal to students in both upper-level students, faculty, researchers, and industry professionals in a number of fields, including biological science, biochemistry, pharmacy, food and medicinal chemistry, systematic botany and taxonomy, ethnobotany, conservation biology, plant genetic and metabolomics, evolutionary sciences, and plant pathology.

Handbook of Conducting Polymers, Fourth Edition - 2 Volume Set Apr 02 2021 In the last 10 years there have been major advances in fundamental understanding and applications and a vast portfolio of new polymer structures with unique and tailored properties was developed. Work moved from a chemical repeat unit structure to one more based on structural control, new polymerization methodologies, properties, processing, and applications. The 4th Edition takes this into account and will be completely rewritten and reorganized, focusing on spin coating, spray coating, blade/slot die coating, layer-by-layer assembly, and fiber spinning methods; property characterizations of redox, interfacial, electrical, and optical phenomena; and commercial applications.

Neuromorphic Photonics May 23 2020 This book sets out to build bridges between the domains of photonic device physics and neural networks, providing a comprehensive overview of the emerging field of "neuromorphic photonics." It includes a thorough discussion of evolution of neuromorphic photonics from the advent of fiber-optic neurons to today’s state-of-the-art integrated laser neurons, which are a current focus of international research. Neuromorphic Photonics explores candidate interconnection architectures and devices for integrated neuromorphic networks, along with key functionality such as learning. It is written at a level accessible to graduate students, while also intending to serve as a comprehensive reference for experts in the field.

The Complete Guide to Sports Nutrition (9th Edition) Feb 24 2023 The Complete Guide to Sports Nutrition is the definitive practical handbook for anyone wanting a performance advantage. What you eat and drink are important considerations when it comes to maximising your sports performance. Whether you are a professional or amateur athlete, or just enjoy regular workouts, well-chosen nutrition strategies can enhance your performance and recovery after exercise. This fully updated and revised edition incorporates the latest cutting-edge research and provides all the tools to help you reach your performance goals. This ninth edition includes accessible guidance on the following topics: · Maximising endurance, strength, performance and recovery · How to calculate your optimal energy, carbohydrate

and protein requirements · Advice on improving body composition · The most popular sports supplements · Relative energy deficiency in sport (RED-S) and eating disorders · Hydration strategies to prevent hypohydration and overhydration · Specific advice for masters athletes, young athletes and plant-based athletes · Nutrition strategies to prepare for competition · Immune health and recovery from injury · Gut health and how to avoid gut problems during exercise.

High-Performance Scientific Computing Aug 26 2020 This book constitutes the thoroughly refereed post-conference proceedings of the First JARA High-Performance Computing Symposium, JARA-HPC 2016, held in Aachen, Germany, in October 2016. The 21 full papers presented were carefully reviewed and selected from 26 submissions. They cover many diverse topics, such as coupling methods and strategies in Computational Fluid Dynamics (CFD), performance portability and applications in HPC, as well as provenance tracking for large-scale simulations.

Research Handbook on International Financial Crime Jun 04 2021 A significant proportion of serious crime is economically motivated. Almost all financial crimes will be either motivated by greed, or the desire to cover up misconduct. This Handbook addresses financial crimes such as fraud, corruption and money laundering, and highlights both the risks presented by these crimes, as well as their impact on the economy. The contributors cover the practical issues on the topic on a transnational level, both in terms of the crimes and the steps taken to control them. They place an emphasis on the prevention, disruption and control of financial crime. They discuss, in eight parts, the nature and characteristics of economic and financial crime, The enterprise of crime, business crime, the financial sector at risk, fraud, corruption, The proceeds of financial and economic crime, and enforcement and control. Academics interested in criminology, law, as well as business and legal studies students will find this book to be an invaluable resource. Practitioners, including lawyers, compliance and risk managements, law enforcement officers, and policy makers will also find the points raised to be of use.

Design Recommendations for Intelligent Tutoring Systems Dec 22 2022 Design Recommendations for Intelligent Tutoring Systems explores the impact of intelligent tutoring system design on education and training. Specifically, this volume examines “Instructional Management” techniques, strategies and tactics, and identifies best practices, emerging concepts and future needs to promote efficient and effective adaptive tutoring solutions. Design recommendations include current, projected, and emerging capabilities within the Generalized Intelligent Framework for Tutoring (GIFT), an open source, modular, service-oriented architecture developed to promote simplified authoring, reuse, standardization, automated instructional management and analysis of tutoring technologies.

Resilient Health Care, Volume 2 Jun 16 2022 Health systems everywhere are expected to meet increasing public and political demands for accessible, high-quality care. Policy-makers, managers, and clinicians use their best efforts to improve efficiency, safety, quality, and economic viability. One solution has been to mimic approaches that have been shown to work in other domains, such as quality management, lean production, and high reliability. In the enthusiasm for such solutions, scant attention has been paid to the fact that health care as a multifaceted system differs significantly from most traditional industries. Solutions based on linear thinking in engineered systems do not work well in complicated, multi-stakeholder non-engineered systems, of which health care is a leading example. A prerequisite for improving health care and making it more resilient is that the nature of everyday clinical work be well understood. Yet the focus of the majority of policy or management solutions, as well as that of accreditation and regulation, is work as it ought to be (also known as ‘work-as-imagined’). The aim of policy-makers and managers, whether the priority is safety, quality, or efficiency, is therefore to make everyday clinical work - or work-as-done - comply with work-as-imagined. This fails to recognise that this normative conception of work is often oversimplified, incomplete, and outdated. There is therefore an urgent need to better understand everyday clinical work as it is done. Despite the common focus on deviations and failures, it is undeniable that clinical work goes right far more often than it goes wrong, and that we only can make it better if we understand how this happens. This second volume of Resilient Health Care continues the line of thinking of the first book, but takes it further through a range of chapters from leading international thinkers on resilience and health care. Where the first book provided the rationale and basic concepts of RHC, the Resilience of Everyday Clinical Work

Gerontology: Changes, Challenges, and Solutions [2 volumes] Feb 18 2020 Written by established and emerging leaders in a broad array of disciplines, this two-volume set provides undergraduate and graduate students, scholars, professionals, and policymakers with an overview of the field of aging that examines the social landscape as well as key changes, challenges, and solutions. • Provides an up-to-date, multidisciplinary, and forward-thinking look at the key areas and issues in gerontology • Highlights links between topics and relevant demographic, social, economic, and health trends with implications for immediate and long-range work in aging • Includes contributions from experts in the fields of sociology, psychology, medicine, education, politics, and government • Identifies the key changes, challenges, and solutions in each subfield • Includes an appendix containing lists of descriptions and contact information for aging organizations as well as an annotated list of documentaries about aging

B'chol L'vavcha: With All Your Heart Jul 25 2020 This extensively revised third edition, now compatible with Mishkan T'filah, offers many voices and unique, contemporary perspectives on our siddur, the order of the service, and the meaning of individual prayers. It reflects on the ways in which our prayer practices continue to evolve. This is an essential educational resource and is indispensable for bar/bat mitzvah and confirmation preparation, as well as for Introduction to Judaism courses and general adult education. "This timely and creative update of a timeless commentary will inspire a new generation of teachers and learners to explore their own expression of Jewish prayer. The rabbinic source materials, contemporary readings, poetry, and probing questions all come together in a seamless whole that serves to open the heart to ever deeper meaning and possibility in our sacred liturgy." - Rabbi Dr. Lisa Grant, Director of the Rabbinical Program, Hebrew Union College-Jewish Institute of Religion, New York "As a young Jewish educator fresh out of graduate school, I turned to the original edition of this book to teach my b'nei mitzvah students. I have come back to it over the decades for the thoughtful commentary and context it has given me as a teacher and teacher of teachers. As the foreword notes, Rabbi Harvey Fields, a consummate gardener, understood the need to prune a vine to encourage new growth. This new edition showcases that new growth yet continues to provide both the ease and depth that have always made it a "go to" on my bookshelf. The updated explanations, references, and questions reflect Mishkan T'filah's fresh approach to prayer. In short, B'chol L'vavcha is a stunning tribute to Rabbi Fields as well as to those who have come after him to encourage our Movement's evolving relationship to worship. Every page I turned inspired a new idea for a lesson, activity, or wondering I could share with my b'nei mitzvah tutors, religious school students, families, and adult learners. And personally, it sparked a renewal of my own belief in the power of prayer to come from my heart and to fill all of my heart." - Dr. Katherine Schwartz, President, Association of Reform Jewish Educators

Handbook of Solvents, Volume 2 Sep 07 2021 Handbook of Solvents, Volume Two: Use, Health, and Environment, Third Edition, contains the most comprehensive information ever published on solvents and an extensive analysis of the principles of solvent selection and use. The book is intended to help formulators select ideal solvents, safety coordinators protect workers, and legislators and inspectors define and implement public safeguards on solvent usage, handling and disposal. The book begins with a discussion of solvent use in over 30 industries, which are the main consumers of solvents. The analysis is conducted based on available data and contains information on the types of solvents used and potential problems and solutions. In addition, the possibilities for solvent substitution are also discussed, with an emphasis on supercritical solvents, ionic liquids, ionic melts, and agriculture-based products. Assists in solvent selection by providing key information and insight on environmental and safety issues Provides

essential best practice guidance for human health considerations Discusses the latest advances and trends in solvent technology, including modern methods of cleaning contaminated soils, selection of gloves, suits and respirators

Volume 19, Tome II: Kierkegaard Bibliography Sep 26 2020 The long tradition of Kierkegaard studies has made it impossible for individual scholars to have a complete overview of the vast field of Kierkegaard research. The large and ever increasing number of publications on Kierkegaard in the languages of the world can be simply bewildering even for experienced scholars. The present work constitutes a systematic bibliography which aims to help students and researchers navigate the seemingly endless mass of publications. The volume is divided into two large sections. Part I, which covers Tomes I-V, is dedicated to individual bibliographies organized according to specific language. This includes extensive bibliographies of works on Kierkegaard in some 41 different languages. Part II, which covers Tomes VI-VII, is dedicated to shorter, individual bibliographies organized according to specific figures who are in some way relevant for Kierkegaard. The goal has been to create the most exhaustive bibliography of Kierkegaard literature possible, and thus the bibliography is not limited to any specific time period but instead spans the entire history of Kierkegaard studies.

Reviews of Environmental Contamination and Toxicology Volume 249 Jan 31 2021 Reviews of Environmental Contamination and Toxicology attempts to provide concise, critical reviews of timely advances, philosophy and significant areas of accomplished or needed endeavor in the total field of xenobiotics, in any segment of the environment, as well as toxicological implications.

Oxford Studies in Metaphysics Nov 09 2021 Much of the most interesting work in philosophy today is metaphysical in character. Oxford Studies in Metaphysics is a forum for the best new work in this flourishing field. OSM offers a broad view of the subject, featuring not only the traditionally central topics such as existence, identity, modality, time, and causation, but also the rich clusters of metaphysical questions in neighbouring fields, such as philosophy of mind and philosophy of science. Besides independent essays, volumes will often contain a critical essay on a recent book, or a symposium that allows participants to respond to one another's criticisms and questions. Anyone who wants to know what's happening in metaphysics can start here.

My People's Prayer Book: Tachanun and concluding prayers Mar 21 2020 "The prayer book is our Jewish diary of the centuries, a collection of prayers composed by generations of those who came before us, as they endeavored to express the meaning of their lives and their relationship to God. The prayer book is the essence of the Jewish soul." This stunning work, an empowering entryway to the spiritual revival of our times, enables all of us to claim our connection to the heritage of the traditional Jewish prayer book. It helps rejuvenate Jewish worship in today's world, and makes its power accessible to all. Framed with beautifully designed Talmud-style pages, commentaries from many of today's most respected Jewish scholars from all movements of Judaism examine Birkhot Hashachar from the perspectives of ancient Rabbis and modern theologians, as well as feminist, halakhic, Talmudic, linguistic, biblical, Chasidic, mystical, and historical perspectives. This fifth volume in the series examines the complexities of personal and public prayer in Birkhot Hashachar, the blessings and readings surrounding each act of awakening. The Morning Blessings begin the daily service by establishing our right to stand before God in all our imperfect humanity. Vol. 5 helps us to understand how this collection of short prayers and a call to study recognizes each new day: we awaken as individuals but quickly affirm our role in the covenant with God. Vol. 5 Birkhot Hashachar (Morning Blessings) features the traditional Hebrew text with a new translation that lets people know exactly what the prayers say. Introductions explain what to look for in the prayer service, and how to truly use the commentaries to find meaning in the prayer book. Commentaries from eminent scholars and teachers from all movements of Judaism examine Birkhot Hashachar from the viewpoints of ancient Rabbis and modern theologians, as well as a myriad of other perspectives. Even those not yet familiar with the prayer book can appreciate the spiritual richness of Birkhot Hashachar. My People's Prayer Book enables all worshipers, of any denomination, to create their own connection to 3,000 years of Jewish experience with the world and with God."

Crime and Justice, Volume 44 Oct 16 2019 Volume 44 of Crime and Justice is essential reading for scholars, policy makers, and practitioners who need to know about the latest advances in knowledge concerning crime, its causes, and its control. Contents include Robert D. Crutchfield on the complex interactions among race, social class, and crime; Cassia Spohn on race, crime, and punishment in America; Marianne van Ooijen and Edward Kleemans on the "Dutch model" of drug policy; Beau Kilmer, Peter Reuter, and Luca Giommoni on cross-national and comparative knowledge about drug use and control drugs; Michael Tonry on federal sentencing policy since 1984; Kathryn Monahan, Laurence Steinberg, and Alex R. Piquero on the growing influence of bioscience and developmental psychology on juvenile justice policy and practice; Cheryl Lero Jonson and Francis T. Cullen on prisoner reentry programs; James P. Lynch and Lynn A. Addington on cultural changes in tolerance of violence and their effects on crime statistics; Brandon C. Welsh, David P. Farrington, and B. Raffan Gowan on benefit-cost analysis of crime prevention; Torbjorn Skardhamar, Jukka Savolainen, Kjersti N. Aase, and Torkild H. Lyngstad on the effects of marriage on criminality; and John MacDonald on the effects on crime rates and patterns of urban design and development.

Neurodevelopment and Intelligence: Impacts of Nutrition, Environmental Toxins, and Stress (Volumes 1 and 2) Mar 01 2021 This special edition of Neurodevelopment and Intelligence contains both Volumes One and Two. The set provides an understanding neurodevelopmental risks during fetal and early life, and of the things that can go awry that limit or hinder healthy brain development, leading to a loss of intellectual abilities or causing disabilities such as autism spectrum disorder. It should be of interest to anyone interested in brain health, preventive medicine, pediatrics, public health policy, present and prospective parents, and those planning on pregnancy and parturition. Herein, Dr. Lewis explains: How people got smarter for more than a century and why the alternative title of the book is Swimming in a Poisoned Pond —The Looming Demise of Cognitive and Mental Health in America How any healthy child can be a genius with advanced planning All the nasty things in your home that cause brain damage The disgusting things in your water that harm the brain The prenatal vitamins that prevent autism How ADHD is a lifestyle disease The eight pillars of health and their effects on the brain What men can do to sire smarter children The environmental toxins that cause violent crime and suicide How to make your home safe for your child's brain The role of gut bacteria on the brain How to make pregnancy safer for the fetal brain Foods that improve brain function Maternal life style factors that affect IQ The seven pillars of health and their effects on the brain What men can do to sire smarter children How to make your home safe for your child's brain The role of gut bacteria on the brain The disruptive effects of sleep deprivation and sleep disordered breathing on brain development, and sleep hygiene for children The effects of stress on the brain and its functioning The harmful effects of poverty on the brain How noise and noise pollution harm brain development. How good public policy can give us a brighter future Foods that improve brain function and make us happy and engaged The effects of Exercise and Environmental Enrichment Kiss your genetic legacy goodbye! Why you will likely never be a grandparent if you don't already have children How stress makes us stupid Why people are getting dumber even though we have better medical care and more access to education. Are we already too dumb to save ourselves from our mistakes? How psychopathic corporations, stupidity, and structural racism raid America's wealth The book is a serious scientific exploration of neurodevelopment on which policy and personal behavior changes can be based to improve health, happiness, and intellectual curiosity. Section I section lays out an description of the Intelligence Quotient (IQ) and why it can used as a proxy

for neurodevelopment. It explains IQ tests and other developmental scales scoring, and some of their limitations. The high metabolic cost of a large brain and the survival advantage provided by epigenetic adaptation to downsize the brain to the current environmental conditions is described, explaining why a less costly and less intelligent brain are adaptive to leaner times. An estimate is made for the average human IQ in full health and nutrition, (about two standard deviations above the current average, or an IQ of 130). A primer on inflammation is given. Section 2: discusses the impact of anemia and iron on brain development. Topics include: Hookworm, malaria, and infections. Most of this section discusses iron deficiency, iron supplementation in pregnancy and infancy, and the role other minerals and vitamins required for blood formation Section 3: Covers the role of iodine and thyroid hormone on neurodevelopment. The following chapters discuss thyroid hormone disruptors including fluoride and bromide, organohalogens, thyroid disrupting organic pollutants, organophosphates and other biocides, and foods and food additives that impact thyroid function Section 4 covers neurotoxic metals in the environment. The neurotoxic metals that most commonly impact brain health are discussed, including arsenic, lead, mercury, manganese. The impacts of cadmium and aluminum on fetal and infant health are reviewed. Toxic metal exposure during development most commonly occurs from water contamination, and Chapter 18 covers water filtration for removal of these toxins. Section 5 discusses the role of toxic metals, dietary factors, and the role of the intestinal microbiome on the causation and exacerbation of autism spectrum disorder. Evidence on the role of special diets for ASD is reviewed. The timing of the development of ASD is discussed; as it is essential to understanding which exposures are relevant and amenable to treatment. Section 6 discussed the generation of air pollution from combustion of fuels and the adverse impacts of it on brain health. Effects of Particulate matter (PM) on health, Alzheimer's and Parkinson's disease are reviewed, along with its effects on the premature birth of infants, neurodevelopment, IQ, and autism. Mitigation of risk is discussed. Section 7 outlines maternal factors that impact neurodevelopment and intelligence. The causes and effects of preterm birth and small for gestational age are explored, with a particular focus on environmental influences. Section 8 covers the effect of general health on neurodevelopment, including the impact of diet on the intestinal microbiome, exercise, sleep deprivation, sleep-disordered breathing, and explains the roll of lifestyle in ADHD. Section 9 discusses the effects of psychosocial stress on neurodevelopment and intellectual performance, and discusses the epigenetic effects of stress on brain development and behavior. The role of having a supportive social environment, a stimulating environment, and education on brain development, IQ and health are discussed. The effects of prenatal stress on the brain are reviewed. Other topics include the effect of stress and telomere length, the effects of poverty or domestic violence on IQ score, and the effects of stress on the hypothalamic-pituitary-adrenal axis and on the gut. The effects of noise on hearing, academic performance, and sleep are reviewed. The need to confront endemic stress as a societal norm is discussed.

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