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BOWERS SIDNEY

Research Grants Index Springer

A comprehensive Introduction to the world of brain and behavior computational models This book provides a broad collection of articles covering different aspects of computational modeling efforts in psychology and neuroscience. Specifically, it discusses models that span different brain regions (hippocampus, amygdala, basal ganglia, visual cortex),

different species (humans, rats, fruit flies), and different modeling methods (neural network, Bayesian, reinforcement learning, data fitting, and Hodgkin-Huxley models, among others). Computational Models of Brain and Behavior is divided into four sections: (a) Models of brain disorders; (b) Neural models of behavioral processes; (c) Models of neural processes, brain regions and neurotransmitters, and (d) Neural modeling approaches. It provides in-depth coverage of models of psychiatric disorders, including depression, posttraumatic stress disorder (PTSD), schizophrenia, and dyslexia;

models of neurological disorders, including Alzheimer's disease, Parkinson's disease, and epilepsy; early sensory and perceptual processes; models of olfaction; higher/systems level models and low-level models; Pavlovian and instrumental conditioning; linking information theory to neurobiology; and more. Covers computational approximations to intellectual disability in down syndrome Discusses computational models of pharmacological and immunological treatment in Alzheimer's disease Examines neural circuit models of serotonergic system (from microcircuits to

cognition) Educates on information theory, memory, prediction, and timing in associative learning Computational Models of Brain and Behavior is written for advanced undergraduate, Master's and PhD-level students—as well as researchers involved in computational neuroscience modeling research.

U.S. Government Research Reports

Elsevier Health Sciences

AN INTRODUCTION TO BEHAVIOR

ANALYSIS Explore a fascinating introductory treatment of the principles of behavior analysis written by three leading voices in the field An Introduction to Behavior Analysis delivers an engaging and comprehensive introduction to the concepts and applications for graduate students of behavior analysis. Written from the ground up to capture and hold student interest, the book keeps its focus on practical issues. The book offers readers sound analyses of Pavlovian and operant learning, reinforcement and punishment, motivation and stimulus control, language and rule-following, decision-making and clinical behavior analysis. With fully up to date empirical research references and theoretical

content, An Introduction to Behavior Analysis thoroughly justifies every principle it describes with empirical support and explicitly points out where more data are required. The text encourages students to analyze their own experiences and some foundational findings in the field in a way that minimizes jargon and maximizes engagement. Readers will also benefit from the inclusion of: A clear articulation and defense of the philosophical assumptions and overarching goals of behavior analysis. A thorough description of objective data collection, experimental methods, and data analysis in the context of psychology An exploration of the core principles of behavior analysis, presented at a level comprehensible to an introductory audience A broad array of principles that cover issues as varied as language, substance-use disorders, and common psychological disorders Perfect for students taking their first course in behavior analysis or behavior modification, An Introduction to Behavior Analysis will also earn a place in the libraries of students pursuing certification through the Behavior Analysis Certification Board or

taking courses in the applied psychological sciences.

Ionizing Radiation Technologies Taylor & Francis

This book discusses the biorefinery of biomass feedstocks. In-depth chapters highlight the scientific and technical aspects and present a techno-economic analysis of such systems. By using a TEA approach, the authors present feasible pathways for conversion of biomass (both residual biomass, energy crops and algae biomass), showing the different possibilities for the production of biochemical materials, biofuels, and fertilizers. The concepts presented in this book will link companies, investors, and governments by providing a framework that will help reduce pollutants and create a biomass related economy that incorporates the newest developments and technologies in the area.

Prentice Hall Exploring Life Science

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PPI PE Structural Reference Manual, 10th Edition - Complete Review for the NCEES

PE Structural Engineering (SE) Exam John Wiley & Sons

This book focuses on the impact of digital media use for political engagement across varied geographic and political contexts, using a diversity of methodological approaches and datasets. The book addresses an important gap in the contemporary literature on digital politics, identifying context dependent and transcendent political consequences of digital media use. While the majority of the empirical work in this field has been based on studies from the United States and United Kingdom, this volume seeks to place those results into comparative relief with other regions of the world. It moves debates in this field of study forward by identifying system-level attributes that shape digital political engagement across a wide variety of contexts. The evidence analyzed across the fifteen cases considered in the book suggests that engagement with digital environments influences users' political orientations and that contextual features play a significant role in shaping digital politics.

Index of Specifications and Standards John Wiley & Sons

Ionizing Radiation Technologies An authoritative overview of major advances in the application of ionizing radiation technologies to industrial, agricultural, and municipal waste products In Ionizing Radiation Technologies: Managing and Extracting Value from Wastes, a team of expert researchers delivers a broad overview of the value trapped in waste streams and how a strategic application of ionizing radiation technologies can be valuable from both an environmental and an economic perspective. A valuable addition to the discussions around sustainability and green technologies, the book introduces ionizing radiation technologies, including gamma (cobalt-60) irradiation and high and low energy electron beam technologies. The contributions included explore the major advances taking place in the application of ionizing radiation technologies to derive high value end-products from agricultural, municipal, and industrial wastes. Each chapter reviews original research and data and considers likely future directions in research and development. The book also includes: A thorough introduction to the application of ionizing radiation

technologies to agricultural waste, including the production of activated carbon Comprehensive explorations of the application of ionizing radiation technologies to municipal waste, including municipal solid wastes and recycling wastewater Practical discussions of the application of ionizing radiation technologies to industrial waste, including textile wastewater management and polymer recycling In-depth examinations of the economics of waste valorization, including several case studies of businesses involved in waste valorization Perfect for consulting engineers and industry professionals involved in waste management and mitigation, Ionizing Radiation Technologies will also earn a place in the libraries of professionals at government agencies, international food organizations, and NGOs focused on waste management, environment sustainability, and urban planning.

Advanced Concrete Technology 2 Oxford University Press

This evidence-based text relates clinical chiropractic management to pediatrics, with coverage of the key aspects of syndromes most commonly seen by

chiropractors working with children. It outlines the essential history-taking, physical assessment, diagnosis and management for each syndrome, while addressing relevant pathology of pediatric conditions. An essential reference source for both chiropractic clinicians and students. Chapters have been radically restructured for the new edition - in line with current research and the models of teaching now being used.

Stress, Cognition and Health Emerald Group Publishing

"The NCEES SE Exam is Open Book - You Will Want to Bring This Book Into the Exam. Alan Williams' PE Structural Reference Manual Tenth Edition (STRM10) offers a complete review for the NCEES 16-hour Structural Engineering (SE) exam. This book is part of a comprehensive learning management system designed to help you pass the PE Structural exam the first time. PE Structural Reference Manual Tenth Edition (STRM10) features include: Covers all exam topics and provides a comprehensive review of structural analysis and design methods New content covering design of slender and shear walls Covers all up-to-date codes for the

October 2021 Exams Exam-adopted codes and standards are frequently referenced, and solving methods—including strength design for timber and masonry—are thoroughly explained 270 example problems Strengthen your problem-solving skills by working the 52 end-of-book practice problems Each problem's complete solution lets you check your own solving approach Both ASD and LRFD/SD solutions and explanations are provided for masonry problems, allowing you to familiarize yourself with different problem solving methods. Topics Covered: Bridges Foundations and Retaining Structures Lateral Forces (Wind and Seismic) Prestressed Concrete Reinforced Concrete Reinforced Masonry Structural Steel Timber Referenced Codes and Standards - Updated to October 2021 Exam Specifications: AASHTO LRFD Bridge Design Specifications (AASHTO) Building Code Requirements and Specification for Masonry Structures (TMS 402/602) Building Code Requirements for Structural Concrete (ACI 318) International Building Code (IBC) Minimum Design Loads for Buildings and Other Structures (ASCE 7) National Design Specification for Wood

Construction ASD/LRFD and National Design Specification Supplement, Design Values for Wood Construction (NDS) North American Specification for the Design of Cold-Formed Steel Structural Members (AISI) PCI Design Handbook: Precast and Prestressed Concrete (PCI) Seismic Design Manual (AISC 327) Special Design Provisions for Wind and Seismic with Commentary (SDPWS) Steel Construction Manual (AISC 325)

Applied Behavior Analysis Prentice Hall

Exploring Life Science Advanced Concrete Technology 2

The Handbook of Behavioral Genetics and Phenotyping represents an integrative approach to neurobehavioural genetics; worldwide experts in their field will review all chapters.

Advanced overviews of neurobehavioural characteristics will add immense value to the investigation of animal mutants and provide unique information about the genetics and behavioural understanding of animal models, under both normal and pathological conditions. Cross-species comparisons of neurobehavioural phenotypes will pave the way for an evolutionary understanding of behaviour.

Moreover, while biological sciences are progressing towards a holistic approach to investigate the complexity of organisms (i.e., "systems biology" approach), an integrated analysis of behavioural phenotyping is still lacking. The Handbook of Behavioral Genetics and Phenotyping strengthens the cross-talk within disciplines that investigate the fundamental basis of behaviour and genetics. This will be the first volume in which traditionally distant fields including genomics, behaviour, electrophysiology, neuroeconomics, and computational neuroscience, among others, are evaluated together and simultaneously accounted for during discussions of future perspectives. *Technical Abstract Bulletin* Cambridge University Press

Based on the Institute of Concrete Technology's advanced course, this new four volume series is a comprehensive educational and reference resource for the concrete materials technologist. An expert international team of authors from research, academia and industry has been brought together to produce this unique reference source. Each volume deals with different aspects of the properties,

composition, uses and testing of concrete. With worked examples, case studies and illustrations throughout, this series will be a key reference for the concrete specialist for years to come. Expert international authorship ensures the series is authoritative. Case studies and worked examples help the reader apply their knowledge to practice. Comprehensive coverage of the subject gives the reader all the necessary reference material. **Applied Mechanics Reviews** John Wiley & Sons

Is the phenomenon of state failure better understood through a focus on the regional context? To what extent may studies of regional security benefit from a focus on the capacities and vulnerabilities of the states involved? This title addresses these questions.

Architecture Exam Review Professional Publications Incorporated
 Psychotic Disorders: Comprehensive Conceptualization and Treatments emphasizes a dimensional approach to psychosis--one of the most fascinating manifestations of altered brain behavior--that cuts across a broad array of psychiatric diagnoses from schizophrenia

to affective psychosis and organic disorders like epilepsy and dementias. Written by an international roster of over seventy leading experts in the field, this volume comprehensively reviews, critiques, and integrates available knowledge on the etiology, mechanisms, and treatments of psychotic disorders, and outlines ways forward in both research and clinical practice towards more objective, mechanistically-based definitions of psychotic disorders. Chapters address topics such as psychosis phenomenology, biomarkers and treatments, the overlaps and interfaces between psychiatric disorders within the psychosis dimension, and novel disease definitions. Furthermore, the volume incorporates findings on potential mechanisms, bridges between various system levels (i.e., genetic, epigenetic, molecular and cellular, brain circuit and function, psychological, social, environmental and cultural) and their interactions, as well as the potential role in causation and/or mediation in psychotic disorders. Finally, the volume outlines a broad array of treatment approaches, from the readily available (e.g.,

psychopharmacology, various modalities of psychotherapy) to the experimental (e.g., cognitive interventions, neuromodulation). With a concluding section of forward perspectives conjecturing future directions and related challenges, this book aspires to stimulate new knowledge, generate novel frameworks, and carry new directions forward on psychotic disorders.

Advanced Concrete Technology Set
Academic Press

The new edition of this bestselling textbook provides a comprehensive overview of the latest research on stress and health, moving beyond the former deficit model to a resource growth model. It examines all aspects of the topic, from how the external world and the impact of technology makes demands upon individuals, through biological and psychological processes, to outcomes in terms of health and well-being. The process is set within a dynamic, multilevel systems and developmental lifespan perspective. The book includes a history of the evolution of stress research and the biological systems and immune responses that translate external pressures into

health outcomes. It considers the role of personality and cognition in terms of appraisal and coping strategies set within a social ecology of power and support. The role of positive psychology in terms of resilience, psychological capital, and self-compassion brings the area up to date in considering the benefits as well as the threats of stress on health and well-being. An integration of issues of importance in stress research is provided with some suggested guidelines for both research and practice. Issues around prevention and intervention are discussed to reduce stress and increase resilience in families, schools, workplaces and communities, and suggestions for the future development of the field are presented. With an engaging style, the book is equally accessible to the layperson and the scientist, the practitioner and the academic. Providing a basis for further exploration of the vast area of stress and health, it is valuable reading for undergraduate and postgraduate students and those working in organisations with an interest in understanding and preventing or alleviating stress.

Bibliography of Scientific and Industrial

Reports John Wiley & Sons

V. Methodology: E. J. Wagenmakers (Volume Editor) Topics covered include methods and models in categorization; cultural consensus theory; network models for clinical psychology; response time modeling; analyzing neural time series data; models and methods for reinforcement learning; convergent methods of memory research; theories for discriminating signal from noise; bayesian cognitive modeling; mathematical modeling in cognition and cognitive neuroscience; the stop-signal paradigm; hypothesis testing and statistical inference; model comparison in psychology; fmri; neural recordings; open science; neural networks and neurocomputational modeling; serial versus parallel processing; methods in psychophysics.

An Introduction to Behavior Analysis

Professional Publications Incorporated Big Data permeates all aspects of modern life, and while there is no shortage of potential benefits resulting from this, author Henrik Skaug Sætra argues that we must also understand the threats Big Data poses to liberty. The issues discussed in

Big Data's Threat to Liberty: Surveillance, Nudging, and the Curation of Information are related to how we are constantly under surveillance. Data is gathered from our homes, our cars, our smartphones, various devices around the house, and public sources such as facial recognition enabled camera surveillance and various websites and social networks. Furthermore, the information gathered is used to influence our actions. Detailed personality profiles are utilized in order to make us purchase products and services, or pay our taxes, through tailor-made nudges aimed at irrational and subconscious mechanisms, and delivered with a level of precision only possible with Big Data-driven algorithmic curation of data. Finally, the information we receive through various media is curated by algorithms, and even people are curated in order to satisfy our desires. By providing us with what the algorithm believes we want, we are spared from the exposure of unpleasant information, and even unpleasant people. The ideological landscapes we traverse are thus characterized by conformity, and a concomitant tyranny of popular opinion

becomes ever more coercive as this occurs. The question is: How does being constantly watched, manipulated, and having our world-views shaped as just described affect our freedom? In this book it is argued that Big Data's threat to individual liberty is routinely misunderstood and underappreciated due to (a) vagueness resulting from the concept of liberty being used without it being defined, or (b) the use of definitions based on flawed understandings of what liberty is. In this new and unique contribution to the ethics of Big Data and artificial intelligence, both these challenges are thoroughly addressed. Explanation of key Big Data-related technologies and how they affect modern society, including explanation of surveillance technologies and nudging algorithms, and how Big Data, Machine Learning, and Artificial Intelligence algorithms are used to tailor and mold opinion Conceptualization of the term liberty, making the concept tangible, as a clear understanding of various forms of liberty enables a proper debate about the effects of technology on liberty, and a debate about what sort of liberty we value

A thorough technical explanation of how Big Data influences individuals by way of surveillance that allows for detailed personality profiles, nudging, and the algorithmic curation of information *Digital Media and Political Engagement Worldwide* Simon and Schuster Based on the Institute of Concrete Technology's Advanced Concrete Technology Course, these four volumes are a comprehensive educational and reference resource for the concrete materials technologist. An expert international team of authors from research, academia and industry has been brought together to produce this unique series. Each volume deals with a different aspect of the subject: constituent materials, properties, processes and testing and quality. With worked examples, case studies and illustrations throughout, the books will be a key reference for the concrete specialist for years to come. Expert international authorship ensures the series is authoritative Case studies and worked examples help the reader apply their knowledge to practice Comprehensive coverage of the subject gives the reader

all the necessary reference material

Computational Models of Brain and Behavior John Wiley & Sons

Vols. for 1963- include as pt. 2 of the Jan. issue: Medical subject headings.

Current Bibliographies in Medicine

Elsevier

The third edition of the Handbook of Educational Psychology is sponsored by Division 15 of the American Psychological Association. In this volume, thirty chapters address new developments in theory and research methods while honoring the legacy of the field's past. A diverse group of recognized scholars within and outside the U.S. provide integrative reviews and critical syntheses of developments in the substantive areas of psychological inquiry in education, functional processes for learning, learner readiness and development, building knowledge and subject matter expertise, and the learning and task environment. New chapters in this edition cover topics such as learning sciences research, latent variable models, data analytics, neuropsychology, relations between emotion, motivation, and volition (EMOVO), scientific literacy, sociocultural perspectives on learning, dialogic

instruction, and networked learning.

Expanded treatment has been given to relevant individual differences, underlying processes, and new research on subject matter acquisition. The Handbook of Educational Psychology, Third Edition, provides an indispensable reference volume for scholars in education and the learning sciences, broadly conceived, as well as for teacher educators, practicing teachers, policy makers and the academic libraries serving these audiences. It is also appropriate for graduate level courses in educational psychology, human learning and motivation, the learning sciences, and psychological research methods in education and psychology.

The Wiley Handbook of Cognitive Control

John Wiley & Sons

The first book to provide a detailed overview of Geosynthetic Reinforced Soil Walls Geosynthetic Reinforced Soil (GRS) Walls deploy horizontal layers of closely spaced tensile inclusion in the fill material to achieve stability of a soil mass. GRS walls are more adaptable to different environmental conditions, more economical, and offer high performance in a wide range of transportation

infrastructure applications. This book addresses both GRS and GMSE, with a much stronger emphasis on the former. For completeness, it begins with a review of shear strength of soils and classical earth pressure theories. It then goes on to examine the use of geosynthetics as reinforcement, and followed by the load-deformation behavior of GRS mass as a soil-geosynthetic composite, reinforcing mechanisms of GRS, and GRS walls with different types of facing. Finally, the book finishes by covering design concepts with design examples for different loading and geometric conditions, and the construction of GRS walls, including typical construction procedures and general construction guidelines. The number of GRS walls and abutments built to date is relatively low due to lack of understanding of GRS. While failure rate of GMSE has been estimated to be around 5%, failure of GRS has been found to be practically nil, with studies suggesting many advantages, including a smaller susceptibility to long-term creep and stronger resistance to seismic loads when well-compacted granular fill is employed. Geosynthetic Reinforced Soil (GRS) Walls will serve as an excellent

guide or reference for wall projects such as transportation infrastructure—including roadways, bridges, retaining walls, and earth slopes—that are in dire need of repair and replacement in the U.S. and abroad. Covers both GRS and GMSE (MSE with geosynthetics as reinforcement); with much greater emphasis on GRS walls Showcases reinforcing mechanisms, engineering behavior, and design concepts of GRS and includes many step-by-step design examples Features information on typical construction procedures and general construction guidelines Includes hundreds of line drawings and photos

Geosynthetic Reinforced Soil (GRS) Walls

is an important book for practicing geotechnical engineers and structural engineers, as well as for advanced students of civil, structural, and geotechnical engineering.

Geosynthetic Reinforced Soil (GRS) Walls
John Wiley & Sons

Now in a new Fourth Edition, Psychiatry remains the leading reference on all aspects of the current practice and latest developments in psychiatry. From an international team of recognised expert editors and contributors, Psychiatry provides a truly comprehensive overview of the entire field of psychiatry in 132 chapters across two volumes. It includes

two new sections, on psychosomatic medicine and collaborative care, and on emergency psychiatry, and compares Diagnostic and Statistical Manual (DSM-5) and International Classification of Diseases (ICD10) classifications for every psychiatric disorder. Psychiatry, Fourth Edition is an essential reference for psychiatrists in clinical practice and clinical research, residents in training, and for all those involved in the treatment of psychiatric disorders. Includes a companion website at www.tasmanpsychiatry.com featuring PDFs of each chapter and downloadable images

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