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KEY=GUIDE - HANCOCK FARMER

Theoretical Foundations of Health Education and Health Promotion

Jones & Bartlett Learning "Introduces students to common theories from behavioral and social sciences that are currently being used in health education and promotion. Each discussion of theory is accompanied by a practical skill-building activity in the context of planning and evaluation and a set of application questions that will assist the student in mastering the application of the theory."--

The Prefrontal Cortex

Anatomy, Physiology, and Neuropsychology of the Frontal Lobe

Lippincott Williams & Wilkins

Dictionary of Public Health Promotion and Education

Terms and Concepts

John Wiley & Sons Written for public health professionals and students, the **Dictionary of Public Health Education and Health Promotion, Second Edition**, includes definitions for terms and concepts frequently used in public health education and promotion. The book offers both students and professionals a handy resource and contains a wide range of health education³/₄ related terminologies and effectively eliminates the need for wading through scores of books or articles to find a definition. The book also provides an easily used reference for those working in research or design of public health interventions and offers a reference list of the terms found most often in the professional literature. Includes key terms used in related public health disciplines such as epidemiology, health administration, biostatistics, environmental health, and behavioral sciences. Presents terms relevant to the four settings of health promotion and education—community, workplace, primary care, and school. Provides a useful study aid when preparing for the exam to become a Certified Health Education Specialist (CHES)

How People Learn II

Learners, Contexts, and Cultures

[National Academies Press](#) There are many reasons to be curious about the way people learn, and the past several decades have seen an explosion of research that has important implications for individual learning, schooling, workforce training, and policy. In 2000, *How People Learn: Brain, Mind, Experience, and School: Expanded Edition* was published and its influence has been wide and deep. The report summarized insights on the nature of learning in school-aged children; described principles for the design of effective learning environments; and provided examples of how that could be implemented in the classroom. Since then, researchers have continued to investigate the nature of learning and have generated new findings related to the neurological processes involved in learning, individual and cultural variability related to learning, and educational technologies. In addition to expanding scientific understanding of the mechanisms of learning and how the brain adapts throughout the lifespan, there have been important discoveries about influences on learning, particularly sociocultural factors and the structure of learning environments. *How People Learn II: Learners, Contexts, and Cultures* provides a much-needed update incorporating insights gained from this research over the past decade. The book expands on the foundation laid out in the 2000 report and takes an in-depth look at the constellation of influences that affect individual learning. *How People Learn II* will become an indispensable resource to understand learning throughout the lifespan for educators of students and adults.

The ULTIMATE Tesla Coil Design and Construction Guide

[McGraw Hill Professional](#) Market: electronics hobbyists and Tesla societies and websites Features 76 worksheets to simplify design The only book available to cover the Tesla coil in so much detail

Handbook of Mental Health and Aging

[Academic Press](#) **The Handbook of Mental Health and Aging, Third Edition** provides a foundational background for practitioners and researchers to understand mental health care in older adults as presented by leading experts in the field. Wherever possible, chapters integrate research into clinical practice. The book opens with conceptual factors, such as the epidemiology of mental health disorders in aging and cultural factors that impact mental health. The book transitions into neurobiological-based topics such as biomarkers, age-related structural changes in the brain, and current models of accelerated aging in mental health. Clinical topics include dementia, neuropsychology, psychotherapy, psychopharmacology, mood disorders, anxiety, schizophrenia, sleep disorders, and substance abuse. The book closes with current and future trends in geriatric mental health, including the brain functional connectome, repetitive transcranial magnetic stimulation (rTMS), technology-based interventions, and treatment innovations. Identifies factors influencing mental health in older adults Includes biological, sociological, and psychological factors Reviews epidemiology of different mental health disorders Supplies separate chapters on grief, schizophrenia, mood, anxiety, and sleep disorders Discusses biomarkers and genetics of mental health and aging Provides assessment and treatment approaches

The Cambridge Handbook of Applied Perception Research

[Cambridge University Press](#) **The Cambridge Handbook of Applied Perception Research** covers core areas of research in perception with an emphasis on its application to real-world environments. Topics include multisensory processing of information, time perception, sustained attention, and signal detection, as well as pedagogical issues surrounding the training of applied perception researchers. In addition to familiar topics, such as perceptual learning, the Handbook focuses on emerging areas of importance, such as human-robot coordination, haptic interfaces, and issues facing societies in the twenty-first century (such as terrorism and threat detection, medical errors, and the broader implications of automation). Organized into sections representing major areas of theoretical and practical importance for the application of perception psychology to human performance and the design and operation of human-technology interdependence, it also addresses the challenges to basic research, including the problem of quantifying information, defining cognitive resources, and theoretical advances in the nature of attention and perceptual processes.

Radar Instruction Manual

Since 1958 the Maritime Administration has continuously conducted instructions in use of collision avoidance radar for qualified U.S. seafaring personnel and representatives of interested Federal and State Agencies. Beginning in 1963, to facilitate the expansion of training capabilities and at the same time to provide the most modern techniques in training methods, radar simulators were installed in Maritime Administration's three region schools. It soon became apparent that to properly instruct the trainees, even with the advanced equipment, a standardized up-to-date instruction manual was needed. The first manual was later revised to serve both as a classroom textbook and as an onboard reference handbook. This newly updated manual, the fourth revision, in keeping with Maritime Administration policy, has been restructured to include improved and more effective methods of plotting techniques for use in Ocean, Great Lakes, Coastwise and Inland Waters navigation. Robert J. Blackwell Assistant Secretary for Maritime Affairs

How People Learn

Brain, Mind, Experience, and School: Expanded Edition

National Academies Press First released in the Spring of 1999, *How People Learn* has been expanded to show how the theories and insights from the original book can translate into actions and practice, now making a real connection between classroom activities and learning behavior. This edition includes far-reaching suggestions for research that could increase the impact that classroom teaching has on actual learning. Like the original edition, this book offers exciting new research about the mind and the brain that provides answers to a number of compelling questions. When do infants begin to learn? How do experts learn and how is this different from non-experts? What can teachers and schools do with curricula, classroom settings, and teaching methods--to help children learn most effectively? New evidence from many branches of science has significantly added to our understanding of what it means to know, from the neural processes that occur during learning to the influence of culture on what people see and absorb. *How People Learn* examines these findings and their implications for what we teach, how we teach it, and how we assess what our children learn. The book uses exemplary teaching to illustrate how approaches based on what we now know result in in-depth learning. This new knowledge calls into question concepts and practices firmly entrenched in our current education system. Topics include: How learning actually changes the physical structure of the brain. How existing knowledge affects what people notice and how they learn. What the thought processes of experts tell us about how to teach. The amazing learning potential of infants. The relationship of classroom learning and everyday settings of community and workplace. Learning needs and opportunities for teachers. A realistic look at the role of technology in education.

The Frontal Lobes and Neuropsychiatric Illness

American Psychiatric Pub This exciting volume brings together the latest work of 26 recognized experts in clinical neuropsychiatry, neuropsychology, neuroscience, and neuroimaging. Its chapters are organized into sections that cover a broad range of topics related to advances in our understanding of normal and abnormal frontal lobe functions. Part 1 introduces frontal lobe dysfunction as a common pathway leading to social and occupational disability, arguing that our aging population with its decline in executive cognitive abilities mandates corresponding eligibility and treatment changes in public and private health disability policies. Part 2 delineates the anatomy and neurochemistry of the extended frontal systems underlying neuropsychiatric illness, including colorful illustrations of three key prefrontal-subcortical circuits; a description of the functional anatomy of the orbitofrontal cortex and its relationship to obsessive-compulsive disorder (OCD); the intricate pharmacology of working memory systems and how they apply to schizophrenia; the lateralization of prefrontal cognitive functions; and a framework for understanding the role played by the prefrontal cortex in consciousness and self-awareness. Part 3 clarifies the overused diagnosis "frontal lobe syndrome" seen in clinical practice, identifying three prefrontal syndromes for further study -- dorsolateral dysexecutive syndrome, orbitofrontal disinhibited syndrome, and mesial frontal apathetic syndrome -- that align with the anatomical systems described in Part 2 of this volume. Also included are common problems -- and suggested solutions -- in diagnosis and treatment, a practical overview of the assessment of frontal lobe functions with guidelines for bedside and formal neuropsychological examination, and comprehensive treatment strategies. Part 4 covers the role of the frontal lobes in major neuropsychiatric illnesses, discussing evidence that shows prefrontal and anterior temporal hypometabolism in primary and secondary depression; reviewing anatomical, imaging, and neurochemical studies in schizophrenia; describing the neuropsychological and neuropsychiatric sequelae of closed head injury; summarizing the neurological substrates related to interesting and often dramatic cases of content-specific delusions; and

concluding with a report on the stereotactic neurosurgical treatment of refractory OCD and its implications for understanding frontal lobe function. This remarkable work is intended for psychiatrists, neurologists, psychologists, basic and clinical neuroscientists, and trainees from each of these disciplines, who will welcome it as a valuable tool in understanding the complexities of what was once considered the terra incognita of the brain.

Pressure Vessel Handbook

ESD in Silicon Integrated Circuits

John Wiley & Sons Incorporated * 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.

Plant Molecular Biology Manual

Springer Science & Business Media

Marcus and Feldman's Osteoporosis

Academic Press **Marcus and Feldman's Osteoporosis, Fifth Edition, is the most comprehensive, authoritative reference on this disease. Led by a new editorial team, this fifth edition offers critical information on reproductive and hormonal risk factors, new therapeutics, ethnicity, nutrition, therapeutics, management and economics, comprising a tremendous wealth of knowledge in a single source not found elsewhere. Written by renowned experts in the field, this two-volume reference is a must-have for biomedical researchers, research clinicians, fellows, academic and medical libraries, and any company involved in osteoporosis drug research and development. Summarizes the latest research in bone biology and translational applications in a range of new therapeutic agents, including essential updates on therapeutic uses of calcium, vitamin D, SERMS, bisphosphonates, parathyroid hormone, and new therapeutic agents Recognizes the critical importance of new signaling pathways for bone health, including Wnt, OPG and RANK, of interest to both researchers who study bone biology and clinicians who treat osteoporosis Offers new insights into osteoporosis associated with menopause, pre-menopause, chronic kidney disease, diabetes, HIV and other immune disorders**

The Cambridge Handbook of Motivation and Learning

Cambridge University Press **Written by leading researchers in educational and social psychology, learning science, and neuroscience, this edited volume is suitable for a wide-academic readership. It gives definitions of key terms related to motivation and learning alongside developed explanations of significant findings in the field. It also presents cohesive descriptions concerning how motivation relates to learning, and produces a novel and insightful combination of issues and findings from studies of motivation and/or learning across the authors' collective range of scientific fields. The authors provide a variety of perspectives on motivational constructs and their measurement, which can be used by multiple and distinct scientific communities, both basic and applied.**

Cognitive Evolution

Routledge **Cognitive Evolution provides an in-depth exploration of the history and development of cognition, from the beginning of life on Earth to present-day humans. Drawing together evolutionary and comparative research, this book presents a unique perspective on the evolution of human cognition. Adopting an information processing perspective - that is, from inputs to outputs, with all the mental processes in between, Boles provides a systematic overview of the evolutionary development of cognition and of its sensation, movement, and perception components. The book is supported by long-established evolutionary theories and backed up by a wealth of recent research from the growing field of**

cognitive evolution and cognitive neuroscience to provide a comprehensive text on the subject. Cognitive Evolution is an essential read for advanced undergraduates and postgraduate students of cognitive and evolutionary psychology.

Echolink for Beginners 2nd Edition

[CreateSpace](#) **A Practical, What-You-Need-to-Know Guide to Getting on Echolink** Echolink is a powerful system for linking the worlds of amateur radio and the Internet. You can link your PC, Android, iPhone, iPad or handheld radio to repeaters, individuals, or conferences located anywhere in the world, quickly and easily. And because it's all digital, you get crystal clear, digital sound. If you are a licensed Amateur Radio operator (ham), now you can communicate with other hams directly over the Internet, using streaming audio technology. Complex interfacing isn't necessary to get started with Echolink. All you need is either a Windows PC with a microphone or an Apple iOS or Android device (iPads, iPods, Nexus, iPhone, Samsung, etc.). Yes, all you need to start is an app on your smartphone, there are no other costs involved. This short book gives you a practical, step-by-step walkthrough of all the options to set up your Echolink "Station." From registering your call sign with Echolink to installing the software on your PC, Android, or Apple device and making your first calls to individuals, ham repeaters, or conferences. This book covers everything you need to get started. The book boils down the vast amount of unnecessary technical information that can be found on the Echolink website (and other websites). It really is all-you-need-to-know. This new edition now adds a new chapter, "Sysop Mode," which covers basic interfacing between your computer and a radio. It uses the example of connecting up a Baofeng UV-5R radio with a Signalink device to use as an Echolink node. This step-by-step example works easily for this common radio, and is easily modified to suit other radios. Inside you'll find step-by-step tutorials on how use your radio or dongle to:

- * Install and configure the software
- * Connect to Conferences, the "Chat rooms" of Echolink
- * Link to distant amateur radio repeaters
- * Link to individuals without knowing their location
- * Setup a linked radio to allow you to access Echolink from your handheld radio

This short book gives you a simple step-by-step walkthrough of all the options to set up your Echolink station using dozens of screenshots and many examples. The whole process is detailed, from registering your call sign with the Echolink network to installing the Echolink software on your PC or mobile device and making your first calls to individuals, ham repeaters, or conferences.

The Brain and Behavior

An Introduction to Behavioral Neuroanatomy

[Cambridge University Press](#) **New edition building on the success of previous one. Retains core aim of providing an accessible introduction to behavioral neuroanatomy.**

Handbook of Executive Functioning

[Springer Science & Business Media](#) **Planning. Attention. Memory. Self-regulation.** These and other core cognitive and behavioral operations of daily life comprise what we know as executive functioning (EF). But despite all we know, the concept has engendered multiple, often conflicting definitions and its components are sometimes loosely defined and poorly understood. The Handbook of Executive Functioning cuts through the confusion, analyzing both the whole and its parts in comprehensive, practical detail for scholar and clinician alike. Background chapters examine influential models of EF, tour the brain geography of the executive system and pose salient developmental questions. A section on practical implications relates early deficits in executive functioning to ADD and other disorders in children and considers autism and later-life dementias from an EF standpoint. Further chapters weigh the merits of widely used instruments for assessing executive functioning and review interventions for its enhancement, with special emphasis on children and adolescents. Featured in the Handbook: The development of hot and cool executive function in childhood and adolescence. A review of the use of executive function tasks in externalizing and internalizing disorders. Executive functioning as a mediator of age-related cognitive decline in adults. Treatment integrity in interventions that target executive function. Supporting and strengthening working memory in the classroom to enhance executive functioning. The Handbook of Executive Functioning is an essential resource for researchers, scientist-practitioners and graduate students in clinical child, school and educational psychology; child and adolescent psychiatry; neurobiology; developmental psychology; rehabilitation medicine/therapy and social work.

Vitamin C in Health and Disease

[MDPI](#) This book is a printed edition of the Special Issue "Vitamin C in Health and Disease" that was published in *Nutrients*

Fan-Out Wafer-Level Packaging

[Springer](#) This comprehensive guide to fan-out wafer-level packaging (FOWLP) technology compares FOWLP with flip chip and fan-in wafer-level packaging. It presents the current knowledge on these key enabling technologies for FOWLP, and discusses several packaging technologies for future trends. The Taiwan Semiconductor Manufacturing Company (TSMC) employed their InFO (integrated fan-out) technology in A10, the application processor for Apple's iPhone, in 2016, generating great excitement about FOWLP technology throughout the semiconductor packaging community. For many practicing engineers and managers, as well as scientists and researchers, essential details of FOWLP - such as the temporary bonding and de-bonding of the carrier on a reconstituted wafer/panel, epoxy molding compound (EMC) dispensing, compression molding, Cu revealing, RDL fabrication, solder ball mounting, etc. - are not well understood. Intended to help readers learn the basics of problem-solving methods and understand the trade-offs inherent in making system-level decisions quickly, this book serves as a valuable reference guide for all those faced with the challenging problems created by the ever-increasing interest in FOWLP, helps to remove roadblocks, and accelerates the design, materials, process, and manufacturing development of key enabling technologies for FOWLP.

Transformer and Inductor Design Handbook, Third Edition

[CRC Press](#) Extensively revised and expanded to present the state-of-the-art in the field of magnetic design, this third edition presents a practical approach to transformer and inductor design and covers extensively essential topics such as the area product, A_p , and core geometry, K_g . The book provides complete information on magnetic materials and core characteristics using step-by-step design examples and presents all the key components for the design of lightweight, high-frequency aerospace transformers or low-frequency commercial transformers. Written by a specialist with more than 47 years of experience in the field, this volume covers magnetic design theory with all of the relevant formulas.

Smart Structures and Materials

[Artech House Publishers](#) This book introduces the enabling concepts that make up the so-called smart structure and presents a number of brief case studies to illustrate the applications of these concepts. It examines the domains of the individual technologies and defines the challenges faced by the integrator. The book is particularly effective for the potential system user who needs a good technical general background on the subject and is also useful for students and researchers in contributory technologies who want to better understand the context of their work. Consultants in civil and structural engineering will also find it of interest.

Sustainable Land Management in a European Context

A Co-Design Approach

[Springer Nature](#) This open access book presents and discusses current issues and innovative solution approaches for land management in a European context. Manifold sustainability issues are closely interconnected with land use practices. Throughout the world, we face increasing conflict over the use of land as well as competition for land. Drawing on experience in sustainable land management gained from seven years of the FONA programme (Research for Sustainable Development, conducted under the auspices of the German Federal Ministry of Education and Research), the book stresses and highlights co-design processes within the "co-creation of knowledge", involving collaboration in transdisciplinary research processes between academia and other stakeholders. The book begins with an overview of the current state of land use practices and the subsequent need to manage land resources more sustainably. New system solutions and governance approaches in sustainable land management are presented from a European perspective on land use. The volume also addresses how to use new modes of knowledge transfer between science and practice. New perspectives in sustainable land management and methods of combining knowledge

and action are presented to a broad readership in land system sciences and environmental sciences, social sciences and geosciences.

Bibliographic Guide to North American History

The Neurology of Eye Movements : Text and CD-ROM

Text and CD-ROM

Oxford University Press, USA **The Neurology of Eye Movements** provides clinicians with a synthesis of current scientific information that can be applied to the diagnosis and treatment of disorders of ocular motility. Basic scientists will also benefit from descriptions of how data from anatomical, electrophysiological, pharmacological, and imaging studies can be directly applied to the study of disease. By critically reviewing such basic studies, the authors build a conceptual framework that can be applied to the interpretation of abnormal ocular motor behavior at the bedside. These syntheses are summarized in displays, new figures, schematics and tables. Early chapters discuss the visual need and neural basis for each functional class of eye movements. Two large chapters deal with the evaluation of double vision and systematically evaluate how many disorders of the central nervous system affect eye movements. This edition has been extensively rewritten, and contains many new figures and an up-to-date section on the treatment of abnormal eye movements such as nystagmus. A major innovation has been the development of an option to read the book from a compact disc, make use of hypertext links (which bridge basic science to clinical issues), and view the major disorders of eye movements in over 60 video clips. This volume will provide pertinent, up-to-date information to neurologists, neuroscientists, ophthalmologists, visual scientists, otalaryngologists, optometrists, biomedical engineers, and psychologists.

Golgi Atlas of the Postnatal Mouse Brain

Springer Science & Business Media **The Atlas** provides a complete overview of all major structures of the mouse brain that can be identified in Golgi preparations. The most important feature is its three-dimensional integrity since all structures and nerve tracts can be followed from one section to the next one with uninterrupted continuity. The Golgi Atlas presents a series of camera lucida drawings of the entire telencephalon and upper brain stem of the young postnatal mouse in 24 transverse, 11 sagittal and 15 horizontal planes. The drawings were prepared from selected brains stained in toto with the Golgi method, that have been serially sectioned in the three orthogonal planes. The text includes an introduction of the material and methods used for the construction of this Atlas and a survey with a complete bibliography on the previous studies made with the Golgi method in Rodents. In this account, a number of issues concerning particular anatomical details are considered in relation to the interpretations obtained by other students. Reference is made to some relevant reviews and key articles.

Cumulative Index to a Selected List of Periodicals

Parkinson's Disease

Diagnosis & Clinical Management : Second Edition

Demos Medical Publishing **Parkinson's disease (PD)** is the second most common neurodegenerative disease in the world. Still the only major text on the subject, the completely revised and updated second edition of **Parkinson's Disease: Diagnosis and Clinical Management** comes at a time when specialists have made important advances in our understanding of the etiology, pathogenesis, investigation, and management of Parkinson's disease. The book includes 23 completely new chapters, and has updated information on: Genetics Pathology Biomarkers Pathogenesis Impulse control disorders in Parkinson's disease Updated outcome measures Complementary and alternative medicine for the treatment of Parkinson's

disease Together the chapters form a comprehensive review of the many issues facing PD physicians today. Lucid and easily readable from beginning to end, each chapter may also stand on its own as a scholarly review of the individual subject. Each one is concisely written and heavily referenced for this purpose. The second edition of *Parkinson's Disease: Diagnosis and Clinical Management* provides a state-of-the-art review of where we've been, where we are now, and where we are going in treating this disease.

Shell Bitumen Handbook

ICE Publishing This respected Handbook has earned its reputation as the authoritative source of information on bitumens used in road pavements and other surfacing applications. This new edition has been up-dated to ensure The Shell Bitumen Handbook retains its excellent reputation.

Emotion Regulation and Psychopathology in Children and Adolescents

Oxford University Press Emotions are a cardinal component of everyday life, affecting one's ability to function in an adaptive manner and influencing both intrapersonal and interpersonal processes such as self-esteem and relationship satisfaction. However, when emotions are overpowering, they can become debilitating and intrusive in daily life. In general, emotion regulation competencies become differentiated as a function of development. Children tend to seek support from adults or use behavioral techniques to regulate their emotions. As children reach adolescence, they become increasingly self-reliant, engaging in planful problem solving and utilizing cognitive strategies (for example, reappraisal) more frequently when faced with stressful life events. While the majority of children and adolescents will successfully navigate these developmental stages by cultivating adaptive coping skills, for some, this marks the beginning of lifelong challenges with emotion regulation and resultant dysregulation. This book provides a guide to dealing with these problems, with contributions from leading experts in the field. Divided into 4 sections, it starts by providing an introduction to the field of emotion regulation in adolescents, touching upon the cultural, social, biological, and developmental issues related to this topic. Section two discusses several psychological disorders impacting adolescents such as anxiety, depression and conduct problems, while also discussing the underlying role emotion regulation plays in the development, maintenance and propagation of these disorders. In addition, this section considers the implication for treatment by discussing the latest evidence-based intervention approaches. The third section focuses on the role of emotion regulation in specific behaviour/populations, such as children of abuse and neglect, as well as adolescents who engage in nonsuicidal self-injury. The final section includes an epilogue, discussing emergent areas of research, answering questions of a theoretical, psychological, and empirical nature. For all those working in the field of mental health, whether novice or experienced, the book provides a valuable guide to understanding and treating these increasingly common problems.

The ECG Handbook of Contemporary Challenges

Cardiotext Publishing A state-of-the-art reference on contemporary and challenging issues in electrocardiography. Amazingly, over a century after the first use of the electrocardiogram, new ECG patterns are being discovered. And in the last few decades, several new electrocardiographic phenomena and markers have emerged that are challenging to physicians and allied professionals who read and interpret ECGs such as early repolarization, ECGs of athletes, Brugada Syndrome, short and long QT syndrome, various channelopathies, and cardiomyopathies. Internationally recognized experts discuss the most recent evidence-based information on these new observations, complemented with detailed ECG tracings, to provide essential guidance for the optimal interpretation of ECGs in the 21st century. Audience: Physicians who are involved in sports medicine, emergency department physicians, internists, ECG readers, and pediatric and adult cardiologists.

The Athenaeum

Athenaeum and Literary Chronicle

The Athenaeum

How Humans Recognize Objects: Segmentation, Categorization and Individual Identification

Frontiers Media SA 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.

Positive Neuroscience

Oxford University Press How do we thrive in our behaviors and experiences? Positive neuroscience research illuminates the brain mechanisms that enable human flourishing. Supported by the John Templeton Foundation's Positive Neuroscience Project, which Martin E. P. Seligman established in 2008, Positive Neuroscience provides an intersection between neuroscience and positive psychology. In this edited volume, leading researchers describe the neuroscience of social bonding, altruism, and the capacities for resilience and creativity. Part I (Social Bonds) describes the mechanisms that enable humans to connect with one another. Part II (Altruism) focuses on the neural mechanisms underlying the human ability and willingness to confer costly benefits on others. Part III (Resilience and Creativity) examines the mechanisms by which human brains overcome adversity, create, and discover. Specific topics include: a newly discovered nerve type that appears to be specialized for emotional communication; the effects of parenting on the male brain; how human altruism differs from that of other primates; the neural features of extraordinary altruists who have donated kidneys to strangers; and distinctive patterns of brain wiring that endow some people with exceptional musical abilities. Accessible to a broad academic audience, from advanced undergraduates to senior scholars, these subjects have generated a fascinating and highly convergent set of ideas and results, shaping our understanding of human nature.

Physics and Chemistry of Partially Molten Rocks

[Springer Science & Business Media](#) **Partial melting occurs in a variety of geological environments, from granitic partial melts in the continental crust, to basaltic or carbonate partial melts in the upper mantle. Partial melting is the first stage of magmatism and therefore plays a role of primary importance in the chemical differentiation of the Earth and in the transport of heat to the Earth surface. This special volume contains contributions presented at the symposium `Physics and Chemistry of Partially Molten Systems' of the EUG 9 meeting, held in Strasbourg, France, on March 23-27, 1997. It is intended to provide a current understanding of the physics of partial melting and melt segregation and covers topics such as the rheology of partially molten systems, the topology of partial melts, modelling of partial melting processes, and field observations of partial melts. Audience: This book is intended for a broad readership, including graduate students, specializing in petrology and geodynamics. The volume may be recommended as a textbook for graduate courses on petrology, geomaterial sciences and geophysics.**

ASAE-S

Billboard

In its 114th year, Billboard remains the world's premier weekly music publication and a diverse digital, events, brand, content and data licensing platform. Billboard publishes the most trusted charts and offers unrivaled reporting about the latest music, video, gaming, media, digital and mobile entertainment issues and trends.