Clinical Neuropsychology And Cognitive Neurology Of Parkinsons Disease And Other Movement Disorders

This volume is a contemporary survey of practice-related issues in clinical neuropsychology in the United States. Section 1 includes chapters on topics relevant to practitioners in clinical neuropsychology such as managed care, practice trends, business aspects of practice, training and credentialing, internet resources for practice, and research in the private practice setting. Section 2 provides narrative descriptions of a range of different practice settings. Authors give firsthand descriptions of their settings, billing and coding practices, how they interface with colleagues and referral sources, and other unique aspects of their practices. Settings range from independent practices to university based departments for both pediatric and adult practices. The volume will be a valuable resource for graduate students interested in clinical neuropsychology, postdoctoral fellows embarking on a career in the field, and practitioners interested in enhancing their practices via the experiences of a diverse group of successful practicing neuropsychologists. With a focus on the practical, day-to-day tools needed by neurologists, psychiatrists, geriatricians, and others who work with the elderly, Memory Loss, Alzheimer's Disease and Dementia, 3rd Edition, is an indispensable, easy-to-read resource in this growing area. Clinical experts Drs. Andrew Budson and Paul Solomon cover the essentials of physical and cognitive examinations and laboratory and imaging studies for dementia and related illnesses, giving you the guidance you need to make accurate diagnosis and treatment
decisions with confidence. Provides in-depth coverage of clinically useful diagnostic tests and the latest research findings and treatment approaches. Incorporates real-world case studies that facilitate the management of both common and uncommon conditions. Contains new chapters on Alzheimer’s look-alikes and posterior cortical atrophy. Covers key topics such as chronic traumatic encephalopathy, primary age-related tauopathy (PART) and limbic-predominant, age-related TDP-43 encephalopathy (LATE), in addition to new criteria for dementia with Lewy bodies and posterior cortical atrophy. Includes current National Institute on Aging–Alzheimer's Association and DSM-5 criteria for Alzheimer’s disease and mild cognitive impairment. Demonstrates how to use diagnostic tests such as the amyloid imaging scans florbetapir (Amyvid), flutemetamol (Vizamyl), and florbetaben (Neuraceq), which can display amyloid plaques in the living brains of patients. Includes access to more than two dozen videos that illustrate common tests, clinical signs, and diagnostic features.

This handbook celebrates the abundantly productive interaction of neuropsychology and medicine. This interaction can be found in both clinical settings and research laboratories, often between research teams and clinical practitioners. It accounts for the rapidity with which awareness and understanding of the neuropsychological components of many common medical disorders have recently advanced. The introduction of neuropsychology into practice and research involving conditions without obvious neurological components follows older and eminently successful models of integrated care and treatment of the classical brain disorders. In the last 50 years, with the growing understanding of neurological disorders, neuropsychologists and medical specialists in clinics, at bedside, and in laboratories together have contributed to
important clinical and scientific advances in the understanding of the common pathological conditions of the brain: stroke, trauma, epilepsy, certain movement disorders, tumor, toxic conditions (mostly alcohol-related), and degenerative brain diseases. It is not surprising that these seven pathological conditions were the first to receive attention from neuropsychologists as their behavioral symptoms can be both prominent and debilitating, often with serious social and economic consequences.

This is a major revision of a standard reference work for neuropsychologists, psychiatrists, and neurologists. About one-half of the book contains entirely new work by new contributors. New topics not covered in the previous editions include consideration of common sources of neurocognitive morbidity, such as multiple sclerosis, diabetes, and exposure to heavy metals; psychiatric and behavioral disorders associated with traumatic brain injury; neuropsychology in relation to everyday functioning; the effects of cognitive impairment on driving skills, and adherence to medical treatments. The Third Edition aims to reflect the enormous developments in neuropsychology in terms of research, clinical applications, and growth of the discipline during the past decade. At one time focused on mapping the cognitive and related consequences of brain injuries, research in neuropsychology has now expanded to much broader considerations of the effects of systemic disease, infection, medications, and inflammatory processes on neurocognition and emotion. The Third Edition attempts to capture these developments while continuing to adhere to the objective of presenting them in a concise manner in a single volume.

Clinical Neuropsychology and Cognitive Neurology of Parkinson's Disease and Other Movement Disorders

Oxford University Press, USA

Executive Functions in Health and Disease provides a
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comprehensive review of both healthy and disordered executive function. It discusses what executive functions are, what parts of the brain are involved, what happens when they go awry in cases of dementia, ADHD, psychiatric disorders, traumatic injury, developmental disorders, cutting edge methods for studying executive functions and therapies for treating executive function disorders. It will appeal to neuropsychologists, clinical psychologists, neuroscientists and researchers in cognitive psychology. Encompasses healthy executive functioning as well as dysfunction Identifies prefrontal cortex and other brain areas associated with executive functions Reviews methods and tools used in executive function research Explores executive dysfunction in dementia, ADHD, PTSD, TBI, developmental and psychiatric disorders Discusses executive function research expansion in social and affective neuroscience, neuroeconomics, aging and criminology Includes color neuroimages showing executive function brain activity

Neuropsychologists are being increasingly called upon to demonstrate the value of their services. This edited book introduces clinical neuropsychologists to the concepts and challenges involved in conducting cost outcome research. It provides examples of how such research can be conducted within clinical neuropsychology and therefore is a "beginning" step in what must become an interdisciplinary effort. The text suggests that more than cost effectiveness studies should be considered when demonstrating the clinical utility of neuropsychological services. The concept of "objective" and "subjective" markers of value is emphasized, particularly as it relates to measuring the impact of a neuropsychological examination. Chapters review the economic burdens associated with different neurological conditions commonly seen by neuropsychologists. They also provide examples of how clinical neuropsychological services to different patient
populations may reduce "costs" and increase "benefits" and suggest directions for beginning cost outcome research. Furthermore, the book summarizes the utility of various neuropsychological services that may be helpful to readers concerned with healthcare economies. The book is intended as a resource for clinical neuropsychologists who wish to explain to healthcare providers the value of their work. It is the first book of the National Academy of Neuropsychology book series entitled: Neuropsychology: Scientific Bases and Clinical Application.

With the emergence of clinical neuropsychology as one of the fastest growing specialties in psychology comes the need for current and future practitioners to stay abreast of the most recent research. A number of professional journals more than adequately meet this need. But, there is also a need to stay up to date on the current thinking about important problems. Drawing upon the expertise of leaders in the field, the editors' intent in this book was to provide the practitioner with a source for discussions of topics that are vital to their ongoing development as clinical neuropsychologists but that generally are not addressed in the literature to any great degree. Fully updated, the second edition of Neuropsychology of Art offers a fascinating exploration of the brain regions and neuronal systems which support artistic creativity, talent and appreciation. This landmark book is the first to draw upon neurological, evolutionary, and cognitive perspectives, and to provide an extensive compilation of neurological case studies of professional painters, composers and musicians. The book presents evidence from the latest brain research, and develops a multidisciplinary approach, drawing upon theories of brain evolution, biology of art, art trends, archaeology, and anthropology. It considers the consequences of
brain damage to the creation of art and the brain’s control of art. The author delves into a variety of neurological conditions in established artists, including unilateral stroke, dementia, Alzheimer’s Disease, Parkinson’s Disease, and also evidence from savants with autism. Written by a leading neuropsychologist, Neuropsychology of Art will be of great interest to students and researchers in neuropsychology, cognitive psychology, neuroscience, and neurology, and also to clinicians in art therapy.

Neuropsychological Tools for Dementia: Differential Diagnosis and Treatment takes a unique approach by combining the neuroscientific background of neuropsychology, neuropsychological tools for diagnosis and disease staging, and neuropsychological treatment into one comprehensive book for researchers and clinicians. Sections present an introduction to neuropsychological assessment in dementias, Alzheimer’s disease, Parkinson’s disease and Lewy body dementia (alpha-synucleinopathies), atypical Parkinson’s diseases (tauopathies), language and behavioral variants of frontotemporal lobe degeneration, and normal pressure hydrocephalus. Each chapter elucidates the point that neuropsychological measures provide the tools to differentiate disease-specific impairments from normal age-related cognitive decline, and from other neurodegenerative diseases. Moreover, the book discusses the possibility of helping patients through neuropsychological intervention. Case studies aid in the reader’s comprehension of the field, and two short guidelines for each disease’s specific assessment
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...and treatment prepare readers for handling real-life patients. Includes epidemiological information regarding dementia. Demonstrates the use of neuropsychological tests and screening tools in diagnosing and differentiating patients with dementia. Outlines which investigation strategy and neuropsychological tests work best for assessing patients for different neurodegenerative diseases. Reviews specific interventions to slow the progress of dementia wherever possible. Discusses the neuropathology, diagnosis and treatment of Alzheimer's disease.

Practicing neuropsychologists and students in clinical neuropsychology must increasingly cross disciplinary boundaries to understand and appreciate the neuroanatomical, neurophysiological, and neuropharmacological bases of cognition and behavior, current cognitive theory in many different domains of functioning, and the nature and tools of clinical assessment. Although the cognitive functions and abilities of interest are often the same, each of these fields has grappled with them from sometimes very different perspectives. Terminology is often specific to a particular discipline or approach, methods are diverse, and the goals or outcomes of study or investigation are usually very different. This book poises itself to provide a largely missing link between traditional approaches to assessment and the growing area of cognitive neuropsychology. Historically, neuropsychology had as its central core the consideration of evidence from clinical cases. It was the early work of neurologists such as Broca, Wernicke, Hughlings-Jackson, and Liepmann, who...
evaluated and described the behavioral correlates of prescribed lesions in individual patients and focused investigation on the lateralization and localization of cognitive abilities in humans. An outgrowth of those approaches was the systematic development of experimental tasks that could be used to elucidate the nature of cognitive changes in individuals with well-described brain lesions. The INS Dictionary of Neuropsychology and Clinical Neurosciences provides concise definitions of neurobehavioral abnormalities, diseases affecting the nervous system, clinical syndromes, neuropsychological tests, neuroanatomy, rehabilitation methods, medical procedures, basic neuroscience, and other important clinical neuroscience terms. Its broad scope not only encompasses the approaches, perspectives, and practice settings of neuropsychology, but also extends to the related disciplines of pharmacology, neurophysiology, neurology, neuropsychiatry, and experimental and cognitive psychology. The Second Edition expands on the content of the First, emphasizing the methodology necessary to critically evaluate research publications according to the highest clinical standards involving evidence-based practice. In addition to definitions, the INS Dictionary includes other information relevant to neuropsychology: abbreviations and acronyms that appear in medical charts and in clinical literature, the origins of specific terminology and how concepts developed, and biographical information on individuals who have influenced the understanding of syndromes, diseases, and anatomy. Although definitions
for most terms are readily available on the Internet, the INS Dictionary presents definitions with a neuropsychological perspective with relevance for neuropsychologists more clearly identified. The INS Dictionary is also conceptualized as an active textbook; entries were derived from a variety of sources ranging from grand rounds to scientific literature and professional neuropsychology conferences. The wide variety of terms that have been specifically selected for inclusion makes the INS Dictionary a valuable resource for neuropsychologists and clinical neuroscientists at all levels.

Memory Loss combines expert guidance, case studies, and diagnostic tests to help you effectively diagnose Alzheimer’s disease and other common dementias. Drs. Andrew E. Budson and Paul R. Solomon cover the essentials of physical and cognitive examinations, laboratory and imaging studies, and the latest treatment approaches. The practical text and diagnostic tests are the tools you need to consistently make accurate diagnoses. Confidently diagnose and treat Alzheimer’s disease and other common dementias through in-depth coverage of clinically useful diagnostic tests and the latest treatment approaches. Tap into the expertise of key leaders in the field for clear and practical guidance. See how to evaluate and manage both common and uncommon conditions with a full range of detailed case studies. Confirm your diagnoses easily with diagnostic tests. Carry the book with you and consult it conveniently thanks to its compact, portable format. This thoroughly revised new edition of a classic book
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provides a clinically inspired but scientifically guided approach to the biological foundations of human mental function in health and disease. It includes authoritative coverage of all the major areas related to behavioral neurology, neuropsychology, and neuropsychiatry. Each chapter, written by a world-renowned expert in the relevant area, provides an introductory background as well as an up-to-date review of the most recent developments. Clinical relevance is emphasized but is placed in the context of cognitive neuroscience, basic neuroscience, and functional imaging. Major cognitive domains such as frontal lobe function, attention and neglect, memory, language, prosody, complex visual processing, and object identification are reviewed in detail. A comprehensive chapter on behavioral neuroanatomy provides a background for brain-behavior interactions in the cerebral cortex, limbic system, basal ganglia, thalamus, and cerebellum. Chapters on temperolimbic epilepsy, major psychiatric syndromes, and dementia provide in-depth analyses of these neurobehavioral entities and their neurobiological coordinates. Changes for this second edition include the reflection throughout the book of the new and flourishing alliance of behavioral neurology, neuropsychology, and neuropsychiatry with cognitive science; major revision of all chapters; new authorship of those on language and memory; and the inclusion of entirely new chapters on psychiatric syndromes and the dementias. Both as a textbook and a reference work, the second edition of Principles of Behavioral and Cognitive Neurology represents an invaluable resource for behavioral
neurologists, neuropsychologists, neuropsychiatrists, cognitive and basic neuroscientists, geriatricians, physiatrists, and their students and trainees. Designed for clinicians and researchers, this is a guide to making differential diagnoses using commonly employed neuropsychological tasks and test measures using meta-analysis. The book contains a compendium of neuropsychological profiles for practitioners and students of neuropsychology, behavioural neurology, psychiatry and speech pathology, and others whose work brings them into contact with patients suffering from common neurological and neuropsychiatric diseases. The text provides a lifespan developmental approach to neuropsychology. It addresses the many issues in neuropsychological assessment that differ between younger and older adults. It describes the symptoms, neuropathology, diagnostic considerations, and treatment options of common neurological disorders associated with aging. It also addresses special considerations related to geriatric neuropsychology, such as ethical issues, family systems issues, decision-making capacity, cultural consideration, and medical/medication/substance use issues. Additionally, a list of resources for the elderly and their families is also provided. The past 30 years have seen the field of clinical neuropsychology grow to become an influential discipline within mainstream clinical psychology and an established component of most professional courses. It remains one of the fastest growing specialities within mainstream clinical psychology, neurology, and the psychiatric
disciplines. Substantially updated to take account of these rapid developments, the new edition of this successful handbook provides a practical guide for those interested in the professional application of neuropsychological approaches and techniques in clinical practice. With chapters by leading specialists, it demonstrates the contribution that neuropsychological approaches can make to the assessment, diagnosis, and treatment of a range of brain disorders, as well as addressing the special considerations when treating children and the elderly. As before, the book is divided into 10 sections, covering everything from methodological and conceptual issues, developmental and paediatric neuropsychology, functional neuroanatomy, and the historical context. Throughout, the content draws on contemporary neuroscientific techniques, focusing on the methods of functional imaging, cognitive psychology, cognitive neuropsychology, neuropsychiatry and cognitive rehabilitation. It also provides background information on laboratory and research techniques, as well as covering relevant neurology and psychiatry. The book will be essential for trainee neuropsychologists, students and teachers in the clinical and cognitive neurosciences/psychology, neurobiologists, neurologists, neurosurgeons and psychiatrists.

Clinical neuropsychology, i.e. the study of patients with cognitive disorders due to lesions of the central nervous system, has for many years been the leading or, in the case of language, the only source of knowledge about the neural basis of cognitive function. This state of affairs
has changed considerably in the last two decades. The “cognitive revolution” has led to extensive developments in the modelling of cognitive functioning in normal subjects; at the same time, modern functional imaging techniques have provided new opportunities for the investigation of normal subjects engaged in cognitive tasks. These recent advances, together with other developments in the field of neurophysiology and experimental psychology, have been instrumental in the definition of a new field of investigation, called “cognitive neuroscience”. This increasing body of knowledge must be confronted, and whenever possible integrated, with the teachings of clinical neuropsychology. The aim of this book is to provide an introduction to this “basic science” from the vantage point of the possible applications to the practice of behavioural and cognitive neurology. It attempts to integrate cognitive neuroscience and the clinical practice of behavioural and cognitive neurology. For this reason, the review of the classical syndrome of neuropsychology, such as aphasia, unilateral neglect and dementia, is preceded by a summary of current cognitive models. The first section is thus devoted to selective summaries of current models of cognitive functions and of their neurological correlates; the second discusses diagnostic issues; the third provides an overview of clinical presentations, and attempts an integration with the first section; finally, the fourth section is devoted to treatment and management issues.

The present volume aims at presenting a selection of new methods and techniques that may have value for clinical neuropsychology. There is an increasing interest
among clinical neuropsychologists regarding new developments in cognitive neuroscience and experimental psychology. This book presents an updated view of recent methodological developments in experimental psychology and clinical neuroscience. This book gives equal weight to the psychological and neurological approaches to the study of cognitive deficits in patients with brain lesions. The result is an analysis of cognitive skills and abilities that departs from the more usual syndrome approach.

The book does not adopt a particular theoretical orientation but tries to clarify the various conceptualizations of attention that are encountered in the literature. Throughout, the book critically reviews the literature on attentional deficits in frequently occurring neurological conditions such as traumatic brain injury, Alzheimer's disease, Parkinson's disease, and epilepsy. This material is organized according to the types of tasks used to investigate attention, such as tests of focused, divided, and sustained attention.

A review of a broad range of neurobehavioral syndromes from both neurological and cognitive neuroscientific perspectives. Despite dramatic advances in neuroimaging techniques, patient-based analyses of brain disorders continue to offer important insights into the functioning of the normal brain. Bridging the gap between the work of neurologists studying clinical disorders and neuroscientists studying the neural mechanisms underlying normal cognition, this book reviews classical neurobehavioral syndromes from both neurological and cognitive scientific perspectives.
contributors are all practicing neurologists who also conduct cognitive neuroscience research. Each chapter begins with a case study, describing the patient's symptoms and the cognitive processes involved. The clinical descriptions are followed by historical background on the neurobehavioral syndromes and discussion of the methods used to understand the underlying neural mechanisms. In their attempts to reconcile conflicting data derived from different methodologies, many of the authors shed new light on the cognitive mechanisms they discuss. The syndromes include neglect, Balint's syndrome, amnesia, semantic dementia, topographical disorientation, acquired dyslexia, acalculia, transcortical motor aphasia, Wernicke's aphasia, apraxia, and lateral prefrontal syndrome.

An overview of the central role in cognitive neuroscience of the corpus callosum, the bands of tissue connecting the brain's two hemispheres.

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

Clinical neuropsychology, i.e. the study of patients with cognitive disorders due to lesions of the central nervous system, has for many years been the leading or, in the case of language, the only source of knowledge about the neural basis of cognitive function. This state of affairs has changed considerably in the last two decades. The "cognitive revolution" has led to extensive developments in the modelling of cognitive functioning in normal subjects; at the same time, modern functional imaging techniques have provided new opportunities for the investigation of normal subjects engaged in cognitive tasks. These recent advances, together with other developments in the field of neurophysiology and experimental psychology, have been instrumental in the definition of a new field of investigation, called “cognitive neuroscience”. This increasing body of knowledge must
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be confronted, and whenever possible integrated, with the teachings of clinical neuropsychology. The aim of this book is to provide an introduction to this “basic science” from the vantage point of the possible applications to the practice of behavioural and cognitive neurology. It attempts to integrate cognitive neuroscience and the clinical practice of behavioural and cognitive neurology. For this reason, the review of the classical syndrome of neuropsychology, such as aphasia, unilateral neglect and dementia, is preceded by a summary of current cognitive models. The first section is thus devoted to selective summaries of current models of cognitive functions and of their neurological correlates; the second discusses diagnostic issues; the third provides an overview of clinical presentations, and attempts an integration with the first section; finally, the fourth section is devoted to treatment and management issues.

Featuring updates and revisions, the second edition of Clinical Neuropsychology provides trainee and practicing clinicians with practical, real-world advice on neuropsychological assessment and rehabilitation. Offers illustrated coverage of neuroimaging techniques and updates on key neuro-pathological findings underpinning neurodegenerative disorders Features increased coverage of specialist areas of work, including severe brain injury, frontotemporal lobar degeneration, assessing mental capacity, and cognitive impairment and driving Features updated literature and increased coverage of topics that are of direct clinical relevance to trainee and practicing clinical psychologists Includes chapters written by professionals with many years'

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experience in the training of clinical psychologists
The study of patients affected by disorders of the central nervous system is one of the crucial research methods for investigating the organization of cognitive functions in the brain. However, many clinicians remain unaware of the significant advances that have taken place in the field of cognitive neuroscience in the last decades. This book provides an introduction to the cognitive and behavioural aspects of the clinical practice of neurology. Most of the contributors to this book combine an active clinical practice with a leading role in their respective research area, and have provided concise summaries of the theoretical advances which they consider as potentially relevant for the clinical evaluation and treatment of patients. This general approach has led to a format which is different from the many textbooks of neuropsychology that have appeared in the last few years. The organization of the material follows the main issues of diagnostic evaluation, clinical presentation and management. As a consequence, the book deals not only with the classical neuropsychological syndromes associated with stroke and degenerative dementias, but also with other common clinical conditions, such as multiple sclerosis, head injury, epilepsy and psychiatric disorders, which are often neglected in neuropsychology textbooks. Cognitive Neurology will be essential for neurologists in training, who want to understand how the observations they make everyday in the clinic relate to the expanding knowledge about the organization of cognition and emotion in the human brain. It will also be of interest to psychologists and cognitive neuroscientists,
speech and language clinicians and rehabilitation specialists and psychiatrists.
Now in its Fifth Edition, Clinical Neuropsychology reviews the major neurobehavioral disorders associated with brain dysfunction and injury. Like previous editions of this book, the Fifth Edition focuses on the clinical presentation of the major neurobehavioral syndromes, including symptoms, signs, and methods of assessment that are useful for diagnosis, and also their underlying anatomy, physiology, and pathology. The major behavioral disorders that are covered include aphasia, agraphia, alexia, amnesia, apraxia, neglect, executive disorders and dementia. The text also discusses advances in assessment, diagnosis and treatment of these disorders. The authors attempt to explain the cognitive mechanisms that can account for specific symptoms and signs, and to provide new information about treatment and management. The authors have drawn from a wealth of new information and research that has emerged since the Fourth Edition was published in 2003. The editors have added a chapter on creativity to the Fifth Edition, since there has been increased interest in creativity, and brain disorders can either enhance or impair creativity. This text will be of value to clinicians, investigators, and students from a variety of disciplines, including neurology, psychology, cognitive neuroscience, psychiatry, and speech pathology. Now presented in full color, this updated edition of Memory Loss, Alzheimer's Disease, and Dementia is designed as a practical guide for clinicians that delivers the latest treatment approaches and research findings.
for dementia and related illnesses. Drs. Budson and Solomon — both key leaders in the field — cover the essentials of physical and cognitive examinations and laboratory and imaging studies, giving you the tools you need to consistently make accurate diagnoses in this rapidly growing area. Access in-depth coverage of clinically useful diagnostic tests and the latest treatment approaches. Detailed case studies facilitate the management of both common and uncommon conditions. Comprehensive coverage of hot topics such as chronic traumatic encephalopathy, in addition to new criteria on vascular dementia and vascular cognitive impairment. Includes new National Institute on Aging–Alzheimer's Association and DSM-5 criteria for Alzheimer’s Disease and Mild Cognitive Impairment. Learn how to use new diagnostic tests, such as the amyloid imaging scans florbetapir (Amyvid), flutemetamol (Vizamyl), and florbetaben (Neuraceq), which can display amyloid plaques in the living brains of patients. Updated case studies, many complete with videos illustrating common tests, clinical signs, and diagnostic features, are now incorporated into the main text as clinical vignettes for all major disorders. Brand-new chapters on how to approach the differential diagnosis and on primary progressive aphasia. Medicine eBook is accessible on a variety of devices. The goal of this book is to introduce cognitive neuropsychology to a broad audience of clinicians and researchers. To orient readers who are interested in disorders of higher cortical function, but have little background in psychology, sufficient introductory
material is provided, and yet each topic is explored in
enough depth to serve as a reference for cognitive
psychologists and cognitive neuropsychologists. The
textbook, edited by David Margolin, M.D., Ph.D., has assembled a
prominent group of researchers and clinicians, and each
describes how the vocabulary, theoretical framework,
and information-processing models of cognitive
psychology are applied to various disorders of higher
cortical function. Each chapter provides an overview of
the disorder being discussed, develops a rationale for
selecting the stimulus materials, and demonstrates how
a given patient's deficits can be understood in terms of a
breakdown in one or more cognitive domains. The
contributors gear the chapters toward the practicing
clinicians and use a step-by-step description of how one
goes about determining the locus of the deficit in a
patient. This cognitive neuropsychological approach is
applied to disorders of attention, memory, language,
vision, calculation, and motor control. A final chapter
introduces the important role of neuroimaging techniques
in diagnosis, which will continue to aid our understanding
of brain-behavior relationships. Professionals in the fields
of neuropsychology, neurology, clinical psychology,
psychiatry, as well as practicing speech therapists and
pathologists, will find this volume a comprehensive
introduction to this increasingly important discipline.
The Neuropsychology of Cortical Dementias addresses
in depth the neuropsychological impact and features of
the full range of cortical dementias. It examines the
differential neuropathological and pathophysiological
bases of these dementias and emphasizes their
behavioral and cognitive aspects in assessment, diagnoses, and treatment. The book also presents the most advanced techniques and strategies for disease-specific treatment. Featuring contributions from such diverse disciplines as neuropsychology, neurology, psychiatry, clinical psychology, pathology, and social work, this volume provides a broad interdisciplinary perspective for practicing clinical neuropsychologists, neurologists, psychiatrists, gerontologists, and psychologists who work with patients suffering from dementia. Key Features: Includes comprehensive, clinically-focused coverage of all major cortical dementias Covers neuroanatomy, assessment, diagnosis, treatment, and management of dementia patients Discusses assessment and diagnosis from the perspectives of neuroimaging and cognitive and behavioral symptoms Discusses a range of interventions (pharmacological, cognitive-behavioral, etc.) and management issues related to dementia treatment Informed by contributions from such diverse disciplines such as neuropsychology, neurology, psychiatry, clinical psychology, pathology, and social work Clinical Neuropsychology comprehensively reviews the major neurobehavioral disorders associated with brain dysfunction. Since the third edition appeared in 1993 there have been many advances in the understanding and treatment of neurobehavioral disorders. This edition, like prior editions, describes the classical signs and symptoms associated with the major behavioral disorders such as aphasia, agraphia, alexia, amnesia, apraxia, neglect, executive disorders and dementia. It
also discusses advances in assessing, diagnosing and treating these disorders and it addresses the brain mechanisms underlying these deficits. A multi-authored text has the advantage of having authorities write about the disorders in which they have expertise. The fourth edition adds new authors and five entirely new chapters on phonologic aspects of language disorders, syntactic aspects of language disorders, lexical-semantic aspects of language disorders, anosognosia, hallucinations and related conditions. This is the most comprehensive edition of this text to date. It will be of value to clinicians, investigators, and students from a variety of disciplines, including neurology, psychology, cognitive neuroscience, psychiatry, and speech pathology. Whereas the roots of the clinical neuropsychology specialty can be found in fields over a century old, it has grown very rapidly during the past thirty years. Doctoral programs in clinical psychology and predoctoral internship programs have developed concentrations in this area, as the need for postdoctoral training in this specialty has become increasingly acknowledged. Typically thought of as the clinical and empirical study of brain-behavior relationships, clinical neuropsychology is firmly grounded in psychology, behavioral neurology, psychiatry, psychometrics, and statistics. In this volume, Drs. Lamberty and Nelson provide a comprehensive overview of the foundational and functional competencies related to the broad field of clinical neuropsychology. The authors distill not only the most important dimensions of the current science and practice, but also delineate important future directions.
and challenges. Anyone interested in obtaining an extensive survey of the extant literature related to this specialty, as well as insider knowledge on important professional issues, will find this volume to be an invaluable resource. Series in Specialty Competencies in Professional Psychology Series Editors Arthur M. Nezu and Christine Maguth Nezu As the field of psychology continues to grow and new specialty areas emerge and achieve recognition, it has become increasingly important to define the standards of professional specialty practice. Developed and conceived in response to this need for practical guidelines, this series presents methods, strategies, and techniques for conducting day-to-day practice in any given psychology specialty. The topical volumes address best practices across the functional and foundational competencies that characterize the various psychology specialties, including clinical psychology, cognitive and behavioral psychology, school psychology, geropsychology, forensic psychology, clinical neuropsychology, couples and family psychology, and more. Functional competencies include common practice activities like assessment and intervention, while foundational competencies represent core knowledge areas such as ethical and legal issues, cultural diversity, and professional identification. In addition to describing these competencies, each volume provides a definition, description, and development timeline of a particular specialty, including its essential and characteristic pattern of activities, as well as its distinctive and unique features. Written by recognized experts in their
respective fields, volumes are comprehensive, up-to-date, and accessible. These volumes offer invaluable guidance to not only practicing mental health professionals, but those training for specialty practice as well.

Casebook of Clinical Neuropsychology features actual clinical cases drawn from leading experts in the field. Written in an engaging, accessible style, this book synthesizes the growing body of knowledge on the neuropsychology of emotion and identifies practical clinical implications. The author unravels the processes that comprise a single emotional event, from the initial trigger through physiological and psychological responses. She also examines how patterns of emotional responses come together to motivate complex behavioral choices. Grounded in theory and research, the book discusses relevant syndromes and populations, reviews available assessment instruments, and describes how deficits in emotional processing affect cognition, daily functioning, and mental health.

The Roots of Cognitive Neuroscience takes a close look at what we can learn about our minds from how brain damage impairs our cognitive and emotional systems. This approach has a long and rich tradition dating back to the 19th century. With the rise of new technologies, such as functional neuroimaging and non-invasive brain stimulation, interest in mind-brain connections among scientists and the lay public has grown exponentially. Behavioral neurology and neuropsychology offer critical insights into the neuronal implementation of large-scale cognitive and affective systems. The book starts out by
making a strong case for the role of single case studies as a way to generate new hypotheses and advance the field. This chapter is followed by a review of work done before the First World War demonstrating that the theoretical issues that investigators faced then remain fundamentally relevant to contemporary cognitive neuroscientists. The rest of the book covers central topics in cognitive neuroscience including the nature of memory, language, perception, attention, motor control, body representations, the self, emotions, and pharmacology. There are chapters on modeling and neuronal plasticity as well as on visual art and creativity. Each of these chapters take pains to clarify how this research strategy informs our understanding of these large scale systems by scrutinizing the systematic nature of their breakdown. Taken together, the chapters show that the roots of cognitive neuroscience, behavioral neurology and neuropsychology, continue to ground our understanding of the biology of mind and are as important today as they were 150 years ago.

The book provides an up-to-date account of the neuropsychological, cognitive-neurological, and neuropsychiatric aspects of movement disorders. The past ten years have seen an explosion of research covering non-motor aspects of Parkinson’s disease and, more recently, movement disorders such as essential tremor, dystonia, corticobasal syndrome, progressive supranuclear palsy, and multiple system atrophy. It is often these neurobehavioral features that become troubling to the patient: they are sometimes difficult to recognize and treat, are associated with diminished
patient and caregiver quality of life, and may hasten disease progression, loss of independence, and institutionalization. This book discusses the most recent diagnostic and treatment guidelines for such cognitive and psychiatric conditions in Parkinson's disease and other movement disorders, while providing practical tips and strategies for general assessment. The rapid accumulation of research in this field makes it increasingly difficult for one or two people to author a comprehensive text in an expert manner. The world-class team assembled for this volume succeeds in covering widely diverse areas such as the pathology, neuroimaging, assessment, and treatment of an ever-growing set of neurobehavioral features of movement disorders -- cognitive impairment and dementia, depression, apathy, anxiety, psychosis, and impulse control disorders. The text also surveys fundamental knowledge about basal ganglia function and dysfunction, assessment and evaluation techniques applicable to a range of movement disorders, and quality of life issues more broadly.

The study of patients affected by disorders of the central nervous system is one of the crucial research methods for investigating the organization of cognitive functions in the brain. However, many clinicians remain unaware of the significant advances that have taken place in the field of cognitive neuroscience in the last decades. This book provides an introduction to the cognitive and behavioural aspects of the clinical practice of neurology. Cognitive Neurology will be essential for neurologists in training, who want to understand how the observations they make
everyday in the clinic relate to the expanding knowledge about the organization of cognition and emotion in the human brain. It will also be of interest to psychologists, speech and language clinicians and rehabilitation specialists.

Written by leading experts in the field, this invaluable text situates the practice of cognitive and behavioral rehabilitation in the latest research from neurobiology and cognitive neuroscience. Initial chapters review current findings on neuronal injury, plasticity, and recovery. The volume next examines the neurobiology of core cognitive domains—attention, memory, language, visuospatial awareness, and executive functioning—focusing on the processes underpinning both healthy and impaired functioning. Highlighting the practical applications of the research, authors describe available interventions in each domain and set forth clear recommendations for clinical practice. Also addressed are ways to understand and manage challenging behaviors, such as aggression, that may emerge in brain-injured persons. The concluding chapter provides overall strategies for helping people recover from the two most common forms of acquired neurological disability: traumatic brain injury and stroke.

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