Clinical Neuropsychology And Cognitive Neurology Of Parkinson's Disease And Other Movement Disorders

Encyclopedia of Clinical Neuropsychology
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The Behavioral and Cognitive Neurology of Stroke
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Parkinson's Disease and Other Movement Disorders
Neuropsychological Formulation
Neuropsychological Research
Textbook of Clinical Neuropsychology
Neurosurgical Neuropsychology: The Practical Application of Neuropsychology in the Neurosurgical Practice
Comprehensive explains the use of neuropsychology in neurosurgical settings. The book covers various preoperative techniques that may benefit neurosurgeons, such as functional neuroimaging (fMRI, SPECT, MEG) for presurgical cognitive mapping, as well as more traditional methods to predict outcomes after surgery, including neurocognitive testing and the Wada procedure. The book's editors discuss why neuropsychologists add considerable value to the neurosurgical team. A wide range of patient populations are covered, ranging from Deep Brain Stimulation candidates for Parkinson's disease, to adult and pediatric epilepsy candidates and neuro-oncology cases. This book is ideal for neurosurgeons, neuropsychologists, neuro-oncologists, epileptologists, general neurologists, and others who want to know more about the use of neuropsychology as a tool in the presurgical and postoperative phases of neurosurgery. Comprehensively explains the use of neuropsychology in neurosurgical settings Written for researchers and clinical practitioners, focusing on neurosurgery, neurology, clinical neuroscience and neurology Discusses various techniques that may be of benefit to neurosurgeons, including presurgical and postoperative choices like functional neuroimaging (fMRI, SPECT, MEG) for presurgical cognitive mapping, neurocognitive testing, and the Wada procedure.

Neuropsychological Tools for Dementia
This forward-looking reference defines and illustrates the process and themes of formulation in neuropsychology and places it in the vanguard of current practice. The book explains the types of information that go into formulations, how they are gathered, and how they are synthesized into a clinically useful presentation describing psychological conditions resulting from neurological illness or injury. Cases highlight the relevance and flexibility of narrative- and diagram-based formulation methods in approaching a diverse range of issues and conditions, from decisional capacity to cultural considerations, Huntington's disease to deep dyslexia. Throughout this volume, formulation is shown as integral to treatment and rehabilitation planning alongside clinical assessment, cognitive testing, and diagnosis. Included among the topics: The interface of neuroimaging with neuropsychological findings in traumatic brain injury. Neuropsychological aspects of temporal-lob epilepsy: seeking evidence-based practice. An integrative approach to differential diagnosis of subarachnoid hemorrhage and Korsakoff's dementia. Educational disengagement following mild TBI in childhood. Themes in the formulation of repeat assessments. Cognitive neuropsychological formulation. Formulation is essential in good neuropsychological assessment as it provides the foundation for appropriate intervention by bringing together the results of different evaluations into a coherent whole. . . . Macniven's compelling and constructive book has assembled internationally known experts from diverse backgrounds to provide illumination of their own views and approaches to formulation, which makes the book a pleasure to read and should establish it as essential reading on clinical psychology and neuropsychology training courses. – Professor Barbara A. Wilson OBE, Ph.D., D.Sc. Neuropsychologists, clinical psychologists, and rehabilitation specialists will find Neuropsychological Formulation of critical importance not only to the literature of the field, but also to the developing role of clinical neuropsychology within healthcare systems.

Clinical Neuropsychology
Neurosurgical Neuropsychology: The Practical Application of Neuropsychology in the Neurosurgical Practice comprehensively explains the use of neuropsychology in neurosurgical settings. The book covers various preoperative techniques that may benefit neurosurgeons, such as functional neuroimaging (fMRI, SPECT, MEG) for presurgical cognitive mapping, as well as more traditional methods to predict outcomes after surgery, including neurocognitive testing and the Wada procedure. The book's editors discuss why neuropsychologists add considerable value to the neurosurgical team. A wide range of patient populations are covered, ranging from Deep Brain Stimulation candidates for Parkinson's disease, to adult and pediatric epilepsy candidates and neuro-oncology cases. This book is ideal for neurosurgeons, neuropsychologists, neuro-oncologists, epileptologists, general neurologists, and others who want to know more about the use of neuropsychology as a tool in the presurgical and postoperative phases of neurosurgery. Comprehensively explains the use of neuropsychology in neurosurgical settings Written for researchers and clinical practitioners, focusing on neurosurgery, neurology, clinical neuroscience and neurology Discusses various techniques that may be of benefit to neurosurgeons, including presurgical and postoperative choices like functional neuroimaging (fMRI, SPECT, MEG) for presurgical cognitive mapping, neurocognitive testing, and the Wada procedure.

Neuropsychology of Everyday Functioning

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Cognitive Neuropsychology in Clinical Practice

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.

Cognitive Neurology

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 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

INS Dictionary of Neuropsychology and Clinical Neurosciences

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.

Cognitive Neurology

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.

The Roots of Cognitive 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 deparths from the more usual syndrome approach.

Neurological Foundations of Cognitive Neuroscience

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.
Clinical Neuropsychology

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, neuropsychology, 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.

The Handbook of Clinical Neuropsychology

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.

Clinical Neuropsychology

Clinical neuropsychology remains one of the fastest growing specialties within clinical psychology, neurology, and the psychiatric disciplines. This second edition provides a practical guide for those interested in the professional application of neuropsychological approaches and techniques in clinical practice.

Neuropsychology of Art

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 specialties 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, neuropsychologists, neurosurgeons and psychiatrists.

Experimental Methods in Neuropsychology

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.

Principles of Behavioral and Cognitive Neurology
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.

**Oxford Textbook of Cognitive Neurology and Dementia**

While neuropsychological testing can accurately detect cognitive deficits in persons with brain injury, the ability to reliably predict how these individuals will function in everyday life has remained elusive. This authoritative volume brings together well-known experts to present recent advances in the neuropsychological assessment of key real-world capacities: the ability to live independently, work, manage medications, and drive a car. For each of these domains, contributors describe cutting-edge tests, procedures, and interpretive strategies and examine salient theoretical and methodological issues. Chapters also review approaches for evaluating specific populations, including older adults and patients with traumatic brain injury, depression, dementia, schizophrenia, and other neurological and psychiatric disorders.

**The Behavioral and Cognitive Neurology of Stroke**

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. The 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.

**The Neuropsychology of Psychopathology**

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' experience in the training of clinical psychologists.

**Cognitive Neurology**

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 editor, 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.

**Handbook of Medical Neuropsychology**

This handbook celebrates the abundantly productive interaction of neuropsychology and medicine. This interaction can be found in both clinical settings and research I- oratories, 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.

**The Practice of Clinical Neuropsychology**

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.

**Clinical Neuropsychology of Emotion**

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**Clinical Neuropsychology**

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 behavioral 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.

**Cognitive Neuropsychology**

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 one, 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 neuropsychology 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 behavioral 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.

**Clinical Neuropsychology and Cost Outcome Research**

Now in paperback, this text covers the dramatic developments that have occurred in basic neuroscience and clinical research in cognitive neurology and dementia. The text is based on the clinical approach to the patient, and provides essential knowledge that is fundamental to clinical practice.

**Clinical Neuropsychological Assessment**

The Roots of Cognitive Neuroscience examines the way brain damage can impair our cognitive and emotional systems. In chapters that range from examining memory and language to emotions and creativity, this book demonstrates that behavioral neurology and neuropsychology are just as relevant today as these research strategies were 150 years ago.
Clinical Neuropsychology

This thoroughly revised new edition of a classic book 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, geriatrists, physiatrists, and their students and trainees.

The Little Black Book of Neuropsychology

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. The recent advances, together with other developments in the field of neuropsychology 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.

Clinical Neuropsychology of Attention

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, agnnesia, 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.

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

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.

Neuropsychological Formulation

The care of stroke patients has changed dramatically. As well as improvements in the emergency care of the condition, there have been marked advances in our understanding, management and rehabilitation of residual deficits. This book is about the care of stroke patients, focusing on behavioural and cognitive problems. It provides a comprehensive review of the field covering the diagnostic
value of these conditions, in the acute and later phases, their requirements in terms of treatment and management and the likelihood and significance of long-term disability. This book will appeal to all clinicians involved in the care of stroke patients, as well as to neuropsychologists, other rehabilitation therapists and research scientists investigating the underlying neuroscience.

Neuropsychological Research

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.

Textbook of Clinical Neuropsychology

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.

Neurosurgical Neuropsychology

Textbook of Clinical Neuropsychology

Practicing neuropsychologists and students in clinical neuropsychology must increasingly cross disciplinary boundaries to understand and appreciate the neuroanatomical, neurophysiological, and neuropsychological 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 poses itself to provide a largely missing link between traditional approaches to assessment and the growing area of 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 Handbook of Clinical Neuropsychology

In a broad sense, neuropsychology stands for the branch of brain sciences that aims to understand how the structure and function of the brain relate to specific cognitive and psychological processes. The idea of developing a research field somewhere between neurology and cognitive psychology emerged in the 1960s as a result of studies conducted by both disciplines which, although using different methodologies and tools, were analysing the same issues. Neuropsychology particularly puts emphasis on the clinical and experimental study of the cognitive effects of brain injury or neurological diseases, taking models of normal cognitive functioning into account. Neuropsychological Research: A Review provides a meticulous overview of what has been achieved in the field of cognitive neuropsychology from its early beginnings in the 1960s and 1970s to the present day. Authors include some of the pioneers involved in the genesis of neuropsychology as an independent and distinct field of neuroscience. The comprehensive coverage includes language disorders, skilled movement disorders, recognition disorders, attentional and executive disorders, visuo-perceptual disorders, memory disorders, and neurodegenerative diseases. This fascinating text forms an enjoyable tribute to the rich heritage of neuropsychology, and will be essential reading for researchers and students of neuropsychology, clinical psychology, cognitive psychology, and behavioural neuroscience.

Cognitive Neurology: An Introduction

From translating the patient’s medical records and test results to providing recommendations, the neuropsychological evaluation incorporates the science and practice of neuropsychology, neurology, and psychological sciences. The Little Black Book of Neuropsychology brings the practice and study of neuropsychology into concise step-by-step focus—without skimping on scientific quality. This one-of-a-kind assessment reference complements standard textbooks by outlining signs, symptoms, and complaints according to neuropsychological domain (such as memory, language, or executive function), with descriptions of possible deficits involved, inpatient and outpatient assessment methods, and possible etiologies. Additional chapters offer a more traditional approach to evaluation, discussing specific neurological disorders and diseases in terms of their clinical features, neuroanatomical correlates, and assessment and treatment considerations. Chapters in psychometrics provide for initial understanding of brain-behavior interpretation as well as more advanced principals for neuropsychology practice including new diagnostic concepts and analysis of change in performance over time. For the trainee, beginning clinician or seasoned expert, this user-friendly presentation incorporating ‘quick reference guides’ throughout which will add to the practice armentarium of
Neuropsychological Neurology

Containing 50 chapters by some of the most prominent clinical neuropsychologists, the Textbook of Clinical Neuropsychology sets a new standard in the field in its scope, breadth, and scholarship. Unlike most other books in neuropsychology, the Textbook is organized primarily around syndromes, disorders, and related clinical phenomena. Written for the clinician at all levels of training, from the beginner to the journeyman, the Textbook presents contemporary clinical neuropsychology in a comprehensive volume. Chapters are rich with reviews of the literature and clinical case material spanning a range from pediatric to adult and geriatric disorders. Chapter authors are among the most respected in their field, leaders of American Neuropsychology, known for their scholarship and professional leadership. Rarely have so many distinguished members of one discipline been in one volume. This is essential reading for students of neuropsychology, and all others preparing for careers in the field.

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

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.

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