



# Clinical Neuroanatomy: A Neurobehavioral Approach

By John Mendoza, Anne Foundas

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Clinical Neuroanatomy offers an extensive review of higher cortical – behavioral functions and their anatomical substrates. The book begins with a review of the basic internal and external morphology, major nerve and fiber tracts, behavioral correlates, and clinical syndromes associated with spinal cord, brain stem, and cerebellum, reacquainting readers with the functional anatomy of the subtentorial central nervous system. The central chapters offer more detailed, integrated, and, at times, theoretical models of cortical systems and their internal organization. Additional chapters highlight vascular anatomy and neurochemical systems. Nearly 300 illustrations help identify key structures and pathways, as well as providing clinical and pathological examples.

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## **Bibliography**

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## **Editorial Review**

### Review

From the reviews:

"Clinical Neuroanatomy: A Neurobehavioral Approach is an outgrowth of seminars requested by neuropsychology interns and residents ... Readers will be impressed by the authors' attention to explaining the limitations of current anatomical and physiological knowledge and reasons for the often confusing overlapping descriptions of various structures. ... the work remains a laudable effort and worthy of consideration, not only by neuropsychologists but also as a valuable addition to one's reference library by all psychologists who intend to work in health care." (John E. Carr, *PsycCRITIQUES*, Vol. 53 (31), 2008)

"This book describes the role of both higher cortical and subcortical structures in understanding neurological deficits. ... Students and clinicians in neuropsychology are the primary audience, but the book is also relevant for 'behavioral and traditional neurologists, neuropsychiatrists, and others who have an interest in exploring the mysteries of brain-behavior relationships' ... helps readers to understand brain structure and function from both the vantage point of normal behavior and pathology." (Gary B Kaniuk, *Doody's Review Service*, October, 2008)

"Tulane Medical School clinical neuropsychologist Mendoza and behavioral neurologist Foundas team up to provide an in-depth overview of higher-order functions, their anatomical and neurochemical substrates, pathology, and theories of functional brain organization. ... An outgrowth of seminars to neuropsychology interns and residents ... It is also suitable for other clinicians who work with the neurologically impaired." (*SciTech Book News*, June, 2008)

### From the Back Cover

The collaboration of a clinical neuropsychologist and a behavioral neurologist, *Clinical Neuroanatomy* expands upon similar texts by offering an exceptionally extensive review of higher cortical – behavioral functions and their anatomical substrates. While a major text for students and clinicians in neuropsychology, it is highly relevant for behavioral and traditional neurologists, neuropsychiatrists, and others who have an interest in exploring the mysteries of brain-behavior relationships.

This book begins with a traditional review of the basic internal and external morphology, major nerve and fiber tracts, behavioral correlates, and clinical syndromes associated with spinal cord, brain stem, and cerebellum designed to reacquaint students and practicing clinicians with the functional anatomy of the subtentorial central nervous system. However, as the text was specifically geared to meet the needs of those practitioners whose primary interest is in what might be termed "higher order cognitive-behavioral function," the main focus of the text is on the brain itself. Borrowing heavily from a Lurian tradition, the central chapters reflect an attempt to offer more detailed, integrated, and, at times, theoretical models of cortical systems and their internal organization. Additional chapters highlight vascular anatomy and associated pathology, as well as neurochemical systems and their potential clinical relevance. The authors' teaching

style enlivens the material with clinical examples and welcomed touches of subtle humor.

-Nearly 300 illustrations help identify key structures and pathways, as well as providing clinical and pathological examples

-Text emphasizes the suspected roles of CNS structures in normal behavior and common consequences of lesions affecting these structures.

-Throughout the text, assessment techniques and guidelines are provided to aid in the examination of the various functional systems.

-Separate sections review the basics of bioelectric and neurochemical transmission at the neuronal and synaptic level.

-Tables, footnotes, and an extensive glossary aid the reader in retaining, understanding, and finding points of particular interest.

## **Users Review**

### **From reader reviews:**

#### **Stephanie Cromwell:**

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