



Cognitive Neuroscience of Attention, Second Edition

From The Guilford Press



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This authoritative reference provides a comprehensive examination of the nature and functions of attention and its relationship to broader cognitive processes. The editor and contributors are leading experts who review the breadth of current knowledge, including behavioral, neuroimaging, cellular, and genetic studies, as well as developmental and clinical research. Chapters are brief yet substantive, offering clear presentations of cutting-edge concepts, methods, and findings. The book addresses the role of attention deficits in psychological disorders and normal aging and considers the implications for intervention and prevention. It includes 85 illustrations.

New to This Edition

- *Significant updates and many new chapters reflecting major advances in the field.
- *Important breakthroughs in neuroimaging and cognitive modeling.
- *Chapters on the development of emotion regulation and temperament.
- *Expanded section on disorders, including up-to-date coverage of ADHD as well as chapters on psychopathy and autism.
- *Chapters on cognitive training and rehabilitation.

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Editorial Review

Review

"Posner, the world's foremost expert on attention, has assembled an all-star team of scientists covering the whole range of cognitive neuroscience research into attention. No stone is left unturned--from discrete working memory slots to frontal and cingulate neural circuits, from resting-state networks to temperament, genetics, and education, the reader is exposed to all of the concepts and findings that count in this rapidly evolving field. Any student or researcher who reads these concise, pithy chapters will be taken to the forefront of contemporary knowledge."--Stanislas Dehaene, PhD, Professor at Collège de France and Director, INSERM-CEA Cognitive Neuroimaging Unit, France

"This ambitious second edition provides even more than the title suggests. Cutting-edge coverage of five major themes--cognition, imaging, neuroscience, development, and deficits--makes the book appropriate for multiple disciplines, especially for my two (psychology and psychiatry), where an update like this is sorely needed to keep up and separate the solid advances from claims that lack support. Even in the areas where I thought I was completely up to date, I learned a lot. The book succeeds in addressing the complexities of attention with methodological rigor while also suggesting how advances in science might be translated into clinical applications. It should have wide appeal for students in psychology and medicine and for clinicians who need guidance to sift through claims about new treatments."--James M. Swanson, PhD, Department of Pediatrics, University of California, Irvine, and Department of Psychiatry, Florida International University

"William James once wrote: 'Everyone knows what attention is. It is the taking possession by the mind, in clear and vivid form, of one out of what seem several simultaneously possible objects or trains of thought.' This enduring definition has only recently become understood in terms of its neural instantiation and cognitive dimensions, a clear result of the revolution in cognitive neuroscience that commenced a century later. This second edition of the definitive work on attention--edited by the leading contemporary authority--should be on the bookshelf of anyone seriously thinking about the subject."--Marcus Raichle, MD, Professor of Radiology, Neurology, Neurobiology and Biomedical Engineering, Washington University School of Medicine in St. Louis

"Students will find this an excellent primer....Whets the appetite and then satisfies the cognitive scientist, with a complex mix of multidisciplinary studies, plentiful data, and functional applications. The second edition is worth the purchase given the advances in the field."

(Doody's Review Service 2011-11-05)

"Superb....Written and edited by internationally recognized cognitive neuroscientists, this book represents the astonishing advances that have taken place in the study of attention and its mechanisms....4 Stars!"

(Doody's Electronic Journal 2011-11-05)

"Posner has done a tremendous service to the field....A 'must read.'"

(Applied Cognitive Psychology 2011-11-05)

About the Author

Michael I. Posner, PhD, is Professor Emeritus at the University of Oregon and Adjunct Professor of Psychology in Psychiatry at the Weill Cornell Medical College in New York, where he served as founding director of the Sackler Institute for Developmental Psychobiology. Dr. Posner is well known for his work with Marcus Raichle on imaging the human brain during cognitive tasks; the book *Images of Mind* resulted from that collaboration. He has worked on the anatomy, circuitry, development, and genetics of three attentional networks underlying maintaining alertness, orienting to sensory events, and voluntary control of thoughts and ideas. Dr. Posner's methods for measuring these networks have been applied to a wide range of neurological, psychiatric, and developmental disorders. His research on the training of attention in young children and adults to understand the interaction of specific experience and genes in shaping attention is described in *Educating the Human Brain*, coauthored with Mary K. Rothbart. Dr. Posner has received numerous awards, including seven honorary degrees, election to the National Academy of Sciences of the USA, and the National Medal of Science.

Users Review

From reader reviews:

Joyce Greenberg:

A lot of people always spent their very own free time to vacation or maybe go to the outside with them family members or their friend. Do you know? Many a lot of people spent many people free time just watching TV, or even playing video games all day long. If you wish to try to find a new activity that's look different you can read any book. It is really fun for yourself. If you enjoy the book that you read you can spent all day every day to reading a publication. The book Cognitive Neuroscience of Attention, Second Edition it is very good to read. There are a lot of people that recommended this book. They were enjoying reading this book. When you did not have enough space to bring this book you can buy the particular e-book. You can m0ore quickly to read this book from your smart phone. The price is not too expensive but this book offers high quality.

Arthur Coe:

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