

Neuroimaging Parts A & B



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This two-volume set covers both the methods and application of a broad range of neuroimaging techniques for clinical and research applications. It should appeal to neuroscientists, cognitive neuroscientists, neurologists, psychiatrists, psychologists, radiologists, nuclear medicine physicians, physicists, and technologists. Part A (also sold individually) is a review of neuroimaging research methods including structural MRI, functional MRI (fMRI), perfusion MRI, diffusion tensor imaging and near infra-red optical imaging in research and clinical settings. Part B covers the application of neuroimaging in both research and clinical settings for the study of anxiety disorders, dementia, depression, schizophrenia, functional somatic syndromes, stroke, and multiple sclerosis using a range of neuroimaging modalities including CT, PET, SPECT, DTI, structural MRI and fMRI. The two parts of "Neuroimaging" complement each other providing in-depth information on a broad range of routine and cutting-edge techniques that is not available in any other text. This book is superbly written and beautifully illustrated by contributors working at the top of their chosen speciality. It presents recent applications of neuroimaging to the area of genetics. It discusses the study of brain development using structural MRI. It includes chapters on the theory and application of neuroreceptor imaging in psychiatry.

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