Designed as an accessible primer for teaching functional anatomy and imaging essentials to practicing neuroradiologists, neurologists, neurosurgeons, psychiatrists, and imaging scientists interested in designing, acquiring, and interpreting functional MRI studies for scientific and clinical purposes.

The book includes background in related MRI physics, sequence configuration, and image processing strategies needed to establish a functional imaging service. An emphasis of the book is an authoritative treatment of functional brain anatomy, including regional cortical anatomy, brain network anatomy, and functional anatomy of core cognitive functions such as language, motor, vision, memory, attention, and social brain function.

The book also contains detailed portraits of more than 20 common fMRI paradigms, with instructions for implementation and sample activation maps expected from each paradigm. SI: Functional MRI will serve as a resource for physicians interested in establishing a clinical functional brain imaging service, with information on fMRI image artifacts, workflow, and billing issues in functional neuroimaging, open source and commercial software platforms for analysis, and numerous sample cases as a guide to image interpretation.

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