

# Functional Neuroimaging: Technical Foundations



The 1990s have been designated by congress and the president as the decade of the brain, in part due to recognition of the expansion of knowledge and technology in the realm of neuroscience. Functional neuroimaging encompasses the technique of electrophysiology (EEG), magnetoencephalography (MEG), magnetic resonance imaging (MRI), and positron emission tomography (PET). Through these techniques, high resolution, 3 dimensional anatomical information can be obtained of the brain and its functioning in normal and diseases states. Neuroscientists everywhere use neuroimaging in research, and these techniques are also used regularly by clinicians, and increasingly by biopsychologists. Given the increase in the number of techniques, and their diversity of applications, there is a need for a comprehensive volume to address both the technology and function of their use.

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