

*Preface to the 2nd Edition*

Preface to the 1st Edition

About the Authors

Preamble

Section 1:

1. Introduction
2. Insights into the Human Brain
3. Basic Physics and Physiology of MEG and EEG
4. An Overview of EEG and MEG

Section 2:

5. Instrumentation for EEG and MEG
6. Devices for Sensory Stimulation and Behavioral Monitoring
7. Practicalities of Data Collection
8. Data Acquisition, Preprocessing, and Sharing
9. Artifacts
10. Analyzing the Data

Section 3:

11. Brain Rhythms
12. Evoked and Event-Related Responses
13. Auditory Responses
14. Visual Responses
15. Somatosensory Responses
16. Other Sensory Responses, Multisensory Interaction, and Interoception
17. Motor Function
18. Brain Signals Related to Change Detection
19. The Social Brain
20. Brain Disorders
21. MEG/EEG Combined with Other Brain Imaging Methods
22. Stepping Back and Looking Forward: Towards Understanding the Human Brain

*Index*