

Perry

Working with MEG

A Practical Guide to Magnetoencephalography

Working with MEG provides an accessible, user-friendly guide to using magnetoencephalography (MEG) in neuroscience research. In this novel guide, Gavin Perry delves into the practical aspects of designing, running and analysing MEG studies – which have traditionally been transferred informally by lab support or word of mouth from more experienced researchers, a difficult and time-consuming task. This user-friendly guide provides those starting out in MEG research with these basics, giving them an understanding of concepts and terminology, guidance on using equipment as well as an overview of the strengths and limitations of the technique. The book is packed with example figures and contains a glossary of key terms. Chapters in this book cover topics such as the physiological origins of the brain's magnetic field, MEG instrumentation and how it can be used to measure brain activity, the process of collecting MEG data and how to design experimental paradigms for use with MEG. It also examines the fundamentals of MEG data analysis, including analysis in the time, frequency and time–frequency domains; performing analysis of the sources of the MEG signals within the brain; and using statistical methods to perform hypothesis testing on MEG data, as well as examples of some of the most commonly used applications of MEG. Designed to be a practical guide for those new to the use of MEG as a research tool, this book will be essential reading for undergraduate, postgraduate and early career researchers looking for an introduction to MEG.

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