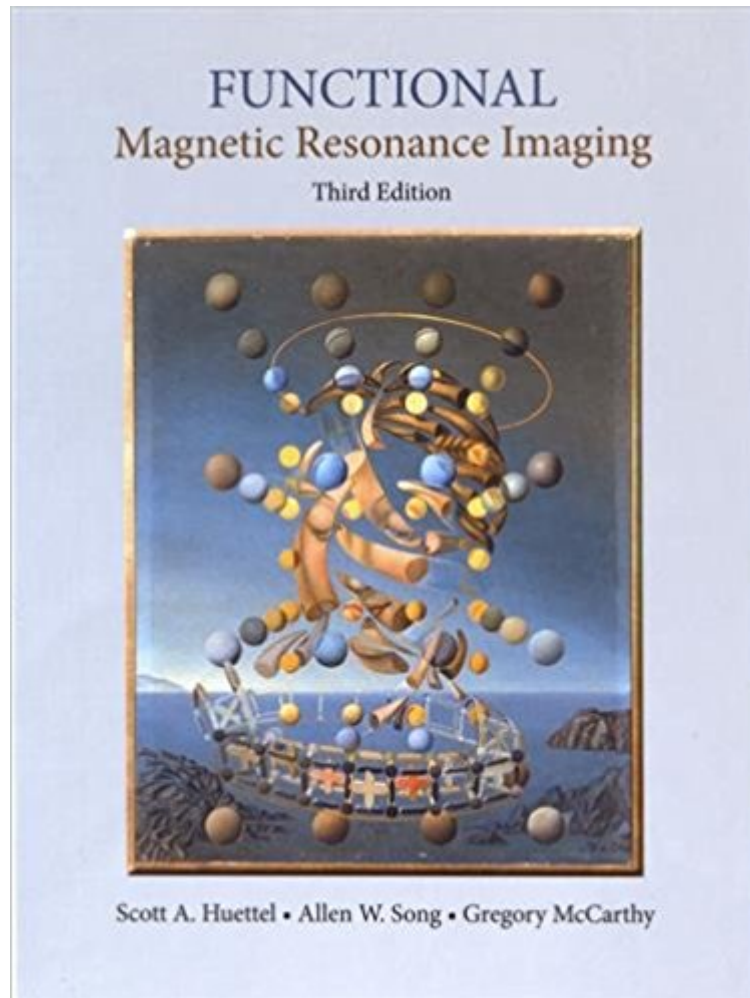




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Functional Magnetic Resonance Imaging



Synopsis

Functional Magnetic Resonance Imaging was the first textbook to provide a true introduction to fMRI--one that presented material authoritatively and comprehensively, yet was accessible to undergraduate students, graduate students, and beginning researchers. This third edition features an updated discussion of the physiological basis of fMRI that includes recent discoveries about the origins of the BOLD response, new data-driven and computational approaches to fMRI data analysis, explanations of creative approaches to experimental design, and discussions of ethical and methodological controversies, among many other revisions. Examples are drawn both from seminal historical work and cutting-edge current research. Concepts are reinforced by numerous thought problems and illustrated with full-color figures, all revised for this edition to achieve a contemporary graphic look. Each chapter is accompanied by updated references and suggested readings.

Book Information

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Customer Reviews

Scott A. Huettel is the Jerry G. and Patricia Crawford Hubbard Professor and Chair of the Department of Psychology and Neuroscience at Duke University, with secondary appointments in the Departments of Psychiatry and Neurobiology. His research uses a combination of behavioral, physiological, and neuroscience techniques to discover the neural mechanisms that support cognition, with a focus on decision-making. Much of his research--which includes collaborations with neuroscientists, psychologists, behavioral economists, and business and medical faculty--falls

within the emerging interdisciplinary of neuroeconomics. He is also a co-editor of Principles of Cognitive Neuroscience (2nd edition, 2013). Allen W. Song is Director of the Brain Imaging and Analysis Center and Professor in the Departments of Radiology, Psychiatry, Neurobiology, and Biomedical Engineering at Duke University. His Ph.D., in Biophysics, was earned from the Medical College of Wisconsin. His research involves the development and optimization of new methods to improve the spatial and temporal resolution of MRI, such as fMRI and DTI. Additional focus is centered on the development of complementary contrast mechanisms for fMRI, including diffusion and perfusion imaging and direct imaging of neuronal activity. Gregory McCarthy is Professor of Psychology at Yale University. He received his Ph.D. in Biological Psychology from the University of Illinois at Urbana-Champaign. Dr. McCarthy studies the functional anatomy of the human brain, an interest he has pursued using behavioral, electrophysiological, and neuroimaging methods. One goal of his research is to elucidate the brain mechanisms of high-level visual function, particularly with regard to perception of social stimuli. Another line of research investigates executive functions, particularly in the frontal lobe, and how they are altered by distracting or emotional stimuli.

Great in-depth textbook of the basics and principles of functional neuroimaging. For anyone interested in the physics and the psychological principles of fMRI, this text covers the basics of MRI, as well as newer developments in the field such as resting state MRI, functional connectivity, and etc. Great update of topics and principles and images compared to version 2. Would highly recommend!

Both conceptual & also formula-based. Explains everything in 2 ways. Very clear.

A very well-organized and intuitive presentation of the fundamental science and methods of fMRI. An excellent introductory text for those just getting oriented to fMRI and its role in cognitive neuroscience research.

It is the state-of-art about the fMRI. The book holds the hands of a novice reader from the first chapter, and carries him/her through the book. Lovely.

Great introductory book. Just the right amount of technicality for someone first starting fMRI.

Excellent teaching tool

Clear figure and description for beginner to learn.

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