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XIII. Summary and Future DirectionsReferences; Chapter 5. Optical Imaging Based on Intrinsic Signals; I. Introduction; II. Sources of Intrinsic Signals and Wavelength Dependency; III. Preparation of an Animal for Optical Imaging; IV. The Apparatus; V. Data Acquisition; VI. Data Analysis for Mapping Functional Architecture; VII. Chronic Optical Imaging; VIII. Optical Imaging of the Human Neocortex; IX. Combining Optical Imaging with Other Techniques; X. Applications; XI. Comparison of Intrinsic Optical Imaging with Other Imaging Techniques; XII. Conclusions and Outlook; References
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Sommario/riassunto

Investigation of the functional architecture of the human brain using modern noninvasive imaging techniques is a rapidly expanding area of research. A proper knowledge of methodology is needed to appreciate the burgeoning literature in the field. This timely publication provides an excellent catalogue of the main techniques. The authors offer an invaluable analysis of mapping strategies and techniques, providing everything from the foundations to the major pitfalls and practical applications of the modern techniques used in neuroimaging. Contains over 1000 full color pages with more tha
