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Nota di contenuto

Quantitative EEG Analysis Methods and Clinical Applications; Contents; Foreword; Preface; Chapter 1: Physiological Foundations of Quantitative EEG Analysis; Chapter 2: Techniques of EEG Recording and Preprocessing; Chapter 3: Single-Channel EEG Analysis; Chapter 4: Bivariable Analysis of EEG Signals; Chapter 5: Theory of the EEG Inverse Problem; Chapter 6: Epilepsy Detection and Monitoring; Chapter 7: Monitoring Neurological Injury by qEEG; Chapter 8: Quantitative EEG-Based Brain-Computer Interface; Chapter 9: EEG Signal Analysis in Anesthesia; Chapter 10: Quantitative Sleep Monitoring; Chapter 11: EEG Signals in Psychiatry: Biomarkers for Depression Management; Chapter 12: Combining EEG and MRI Techniques; Chapter 13: Cortical Functional Mapping by High-Resolution EEG; Chapter 14: Cortical Function Mapping with Intracranial EEG; About the Editors; List of Contributors; Index

Sommario/riassunto

This authoritative volume provides an overview of basic and advanced techniques used in quantitative EEG (qEEG) analysis. The book provides a wide range of mathematical tools used in qEEG, from single channel descriptors to the interactions among multi-channel EEG analysis. Moreover, you find coverage of the latest and most popular application in the field, including mental and neurological disease detection/monitoring, physiological and cognitive phenomena research, and fMRI.
