

## Bioelectrical Signal Processing In Cardiac And Neurological Applications Biomedical Engineering

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Description. The analysis of bioelectrical signals continues to receive wide attention in research as well as commercially because novel signal processing techniques have helped to uncover valuable information for improved diagnosis and therapy. This book takes a unique problem-driven approach to biomedical signal processing by considering a wide range of problems in cardiac and neurological applications—the two “heavyweight” areas of biomedical signal processing.

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Bioelectrical Signal Processing is suitable for a final year undergraduate or graduate course as well as for use as an authoritative reference for practicing engineers, physicians, and researchers. A problem-driven, interdisciplinary presentation of biomedical signal processing Focus on methods for processing of bioelectrical signals (ECG, EEG, evoked potentials, EMG) Covers both classical and recent signal processing techniques Emphasis on model-based statistical signal processing Comprehensive ...

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Bioelectrical Signal Processing in Cardiac and Neurological Applications. , Merletti Roberto, Parker Philip: Electromyography: Physiology, Engineering, and Noninvasive Applications. Elsevier Academic Press 30 Corporate Drive, Suite 400, Burlington, MA 01803, USA; 2005. (8 chapters, 2 appendices, 668 pp) ISBN 13: 978-0-12-437552-9, ISBN 10: 0-12-437552-9, John Wiley & Sons, Inc. Hoboken, New Jersey, USA; 2004. (18 chapters, 494 pp) ISBN 0-471-67580-6.

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Bioelectrical signals are generated from the complex self-regulatory system and can be measured through changes in electrical potential across a cell or an organ. The bioelectrical signals of our interest are in particular, the electrocardiogram (ECG) and the electroencephalogram (EEG).

[Bioelectrical Signals as Emerging Biometrics: Issues and...](#)

An electrocardiogram (ECG) is a graphical record of bioelectrical signal generated by the human body during cardiac cycle (Goldschlager, 1989). ECG graphically gives useful information that relates to the heart functioning (Dubis, 1976) by means of a base line and