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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 processingFocus on methods for processing of bioelectrical signals (ECG, EEG, evoked potentials, EMG)Covers both classical and recent signal processing techniquesEmphasis on model-based statistical signal processingComprehensive ...

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Bioelectrical Signal Processing in Cardiac and Neurological 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. Roberto Merletti, Philip Parker.

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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