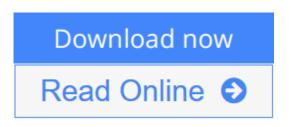# Bioelectrical Signal Processing in Cardiac and Neurological Applications

By Leif Sörnmo, Pablo Laguna

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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. The interdisciplinary nature of the topic is reflected in how the text interweaves physiological issues with related methodological considerations. *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.
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· 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 exercises and illustrations
· Extensive bibliography
· For companion web site with project descriptions and signals for download see **www.biosignal.lth.se**

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