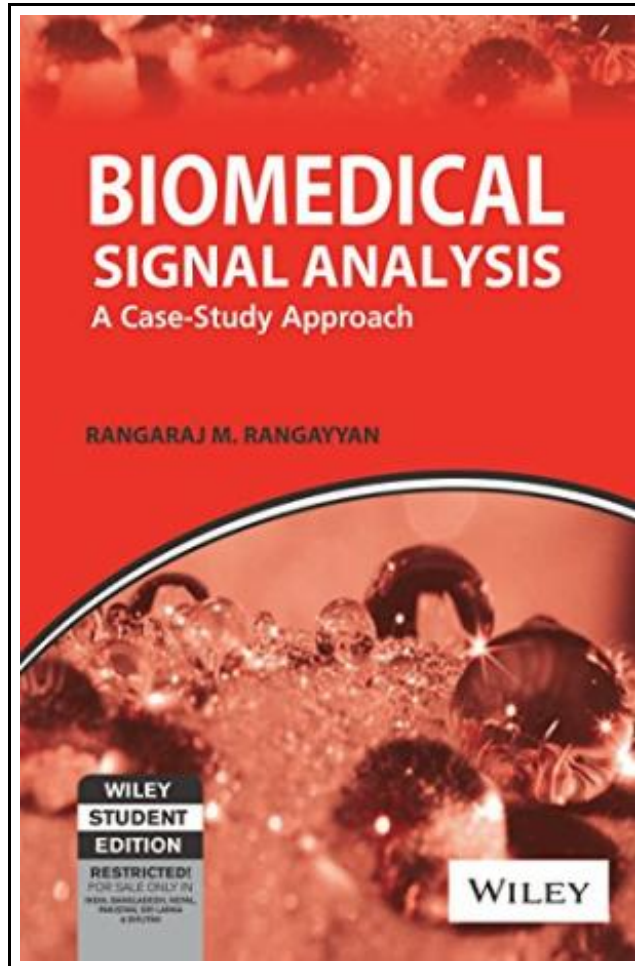


Biomedical Signal Analysis: A Case-Study Approach



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BIOMEDICAL SIGNAL ANALYSIS: A CASE-STUDY APPROACH



Wiley India Pvt. Ltd., 2009. Softcover. Book Condition: New. The author takes a case-study approach to solve problems in biomedical signal analysis. Each chapter deals with a certain type of problems with biomedical signals. Real-life case studies and the associated signals illustrate the problem to be solved. Signal processing, modeling, or analysis techniques are then presented, starting with relatively simple methods, followed by more sophisticated ones. Each chapter concludes with an application to a significant and practical problem. Contents:- Dedication. Preface. About the Author. Acknowledgments. Symbols and Abbreviations. 1 Introduction to Biomedical Signals. 1.1 The Nature of Biomedical Signals. 1.2 Examples of Biomedical Signals. 1.3 Objectives of Biomedical Signal Analysis. 1.4 Difficulties in Biomedical Signal Analysis. 1.5 Computer-aided Diagnosis. 1.6 Remarks. 1.7 Study Questions and Problems. 1.8 Laboratory Exercises and Projects. 2 Concurrent, Coupled, and Correlated Processes. 2.1 Problem Statement. 2.2 Illustration of the Problem with Case-studies. 2.3 Application: Segmentation of the PCG. 2.4 Remarks. 2.5 Study Questions and Problems. 2.6 Laboratory Exercises and Projects. 3 Filtering for Removal of Artifacts. 3.1 Problem Statement. 3.2 Illustration of the Problem with Case-studies. 3.3 Time-domain Filters. 3.4 Frequency-domain Filters. 3.5 Optimal Filtering: The Wiener Filter. 3.6 Adaptive Filters for Removal of Interference. 3.7 Selecting an Appropriate Filter. 3.8 Application: Removal of Artifacts in the ECG. 3.9 Application: Maternal - Fetal ECG. 3.10 Application: Muscle-contraction Interference. 3.11 Remarks. 3.12 Study Questions and Problems. 3.13 Laboratory Exercises and Projects. 4 Event Detection. 4.1 Problem Statement. 4.2 Illustration of the Problem with Case-studies. 4.3 Detection of Events and Waves. 4.4 Correlation Analysis of EEG channels. 4.5 Cross-spectral Techniques. 4.6 The Matched Filter. 4.7 Detection of the P Wave. 4.8 Homomorphic Filtering. 4.9 Application: ECG Rhythm Analysis. 4.10 Application: Identification of Heart Sounds. 4.11 Application: Detection of the Aortic Component of S2. 4.12 Remarks. 4.13 Study...



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