



# Detection and Estimation Methods for Biomedical Signals

*Metin Akay*

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**Detection and Estimation Methods for Biomedical Signals** discusses the most powerful signal detection and estimation methods in use, and includes appendices of related computer programs to aid the reader in applying the methods to their particular problem.

This book includes numerous practical examples of detection and estimation of biological signals, such as the detection of Multiple Sclerosis, using the orthogonal expansion method, and the early detection of coronary artery disease and occlusions before and after angioplasty by the Eigenvector methods. There is also ample coverage of four different **wavelet transforms**, useful in biomedical signal processing, as well as coverage of biomedical applications of **neural networks** and **chaos theory**. This book includes a disk of ANSI C source code for ten useful computer programs.

## Key Features

- \* Time–frequency methods: design, implementation, simulation, biomedical applications, computer programs on disk
- \* Wavelets: design, implementation, simulation, biomedical applications, computer programs on disk
- \* High resolution methods: design, implementation, simulation, biomedical applications, computer programs on disk
- \* Singular value composition, principle component analysis, Karhunen-Loeve transforms: design, implementation, and biomedical applications
- \* Bayes Rules and Neyman-Pearson Methods: design, implementation, biomedical applications

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