



# Signals and Systems Analysis In Biomedical Engineering, Second Edition

*Robert B. Northrop*

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The first edition of this text, based on the author's 30 years of teaching and research on neurosensory systems, helped biomedical engineering students and professionals strengthen their skills in the common network of applied mathematics that ties together the diverse disciplines that comprise this field. Updated and revised to include new material as the field has grown, **Signals and Systems Analysis in Biomedical Engineering, Second Edition** continues to provide a ready source of information on those specialized mathematical techniques most useful in describing and analyzing biomedical signals.

## *New chapters on nonlinear and complex systems*

Enriched with many examples that promote sound practical analysis, this volume covers classical linear systems theory and its applications to biomedicine. It examines the important use of joint time-frequency analysis to characterize non-stationary physiological signals, and explores the mathematics of tomographic imaging (the Radon transform, the Fourier slice theorem, and the filtered back-projection algorithm). It also describes the analytical signal and the Hilbert transform and some of its biomedical applications. New chapters in this edition include one on the analysis of nonlinear biochemical systems and biochemical oscillators, as well as one introducing complex systems and illustrating ways to best model them.

## *Four appendices with additional material*

Extensive appendices supplement the text, including "Simnon® Programs Used in Chapters 11 and 12," "How to use Root Locus to Determine the Stability of SISO Linear Systems," "Signal Flow Graphs and Mason's Rule," and "Computational Tools for Biomedical Signal Processing and Systems Analysis." An extensive glossary is included as well as an ample listing of sources for further study.

A solutions manual is available for instructors wishing to convert this reference to classroom use.

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