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Signal Processing for Neuroscientists introduces analysis techniques primarily aimed at neuroscientists and biomedical engineering students with a reasonable but modest background in mathematics, physics, and computer programming. The focus of this text is on what can be considered the "golden trio"™ in the signal processing field: averaging, Fourier analysis, and filtering.

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Signal Processing for Neuroscientists Wim van Drongelen Preface This textbook is an introduction to signal processing primarily aimed at neuroscientists and biomedical engineers. The text was developed for a one-quarter course I teach for graduate and undergraduate students at the University of Chicago and the Illinois Institute of Technology.

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This book is a companion to the previously published Signal Processing for Neuroscientists: An Introduction to the Analysis of Physiological Signals, which introduced readers to the basic concepts. It discusses several advanced techniques, rediscovers methods to describe nonlinear systems, and examines the analysis of multi-channel recordings.

Signal Processing for Neuroscientists, A Companion Volume

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