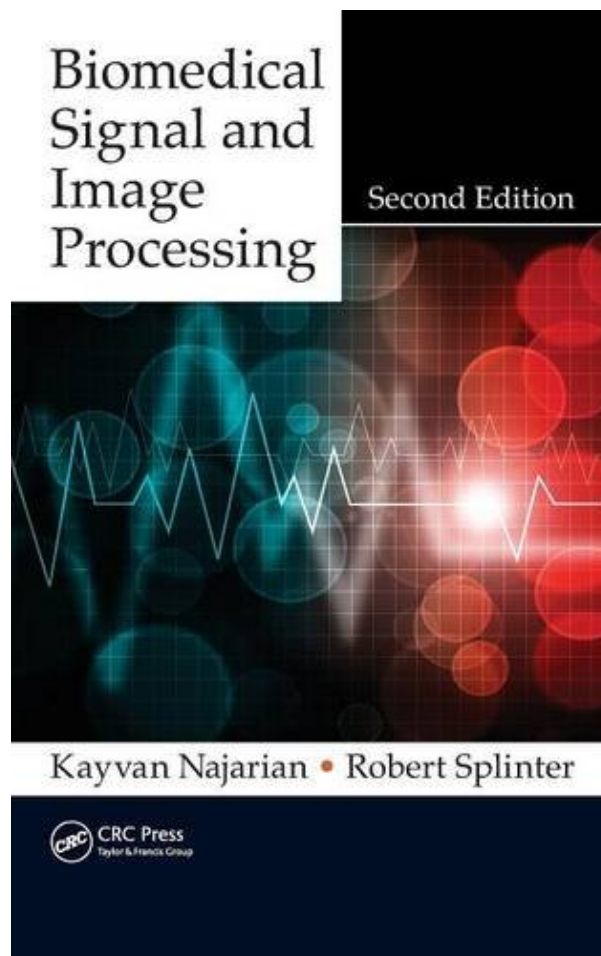


BIOMEDICAL SIGNAL AND IMAGE PROCESSING, SECOND EDITION BY KAYVAN NAJARIAN, ROBERT SPLINTER



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Review

"This is a great book, ideal for a biomedical signal and image processing course.... a great introduction to the topic, while it also includes advanced topics in the field for graduate courses. ... a great collection of topics [including] introduction to signal and image processing, advanced signal processing techniques, physiology and specific signal processing techniques used for various biomedical signals, an introduction to medical image formation, and advanced topics on medical image processing. This is a great book, highly recommended to any research and educator in this field."

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About the Author

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First published in 2005, Biomedical Signal and Image Processing received wide and welcome reception from universities and industry research institutions alike, offering detailed, yet accessible information at the reference, upper undergraduate, and first year graduate level. Retaining all of the quality and precision of the first edition, Biomedical Signal and Image Processing, Second Edition offers a number of revisions and improvements to provide the most up-to-date reference available on the fundamental signal and image processing techniques that are used to process biomedical information.

Addressing the application of standard and novel processing techniques to some of today's principle biomedical signals and images over three sections, the book begins with an introduction to digital signal and image processing, including Fourier transform, image filtering, edge detection, and wavelet transform. The second section investigates specifically biomedical signals, such as ECG, EEG, and EMG, while the third focuses on imaging using CT, X-Ray, MRI, ultrasound, positron, and other biomedical imaging techniques.

Updated and expanded, Biomedical Signal and Image Processing, Second Edition offers numerous additional, predominantly MATLAB, examples to all chapters to illustrate the concepts described in the text and ensure a complete understanding of the material. The author takes great care to clarify ambiguities in some mathematical equations and to further explain and justify the more complex signal and image processing concepts to offer a complete and understandable approach to complicated concepts.

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5 of 6 people found the following review helpful.

Too cursory.

By Image processing engineer

This book is divided into two major sections. The first covers the mathematical techniques and computational algorithms for signal processing. The second covers biomedical examples. I feel that the derivations, explanations, and examples are too cursory. It is more like an outline of topics that one might cover in a course. There are much better texts for learning image processing in Matlab (e.g. Gonzalez's "Digital Image Processing using Matlab.")

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