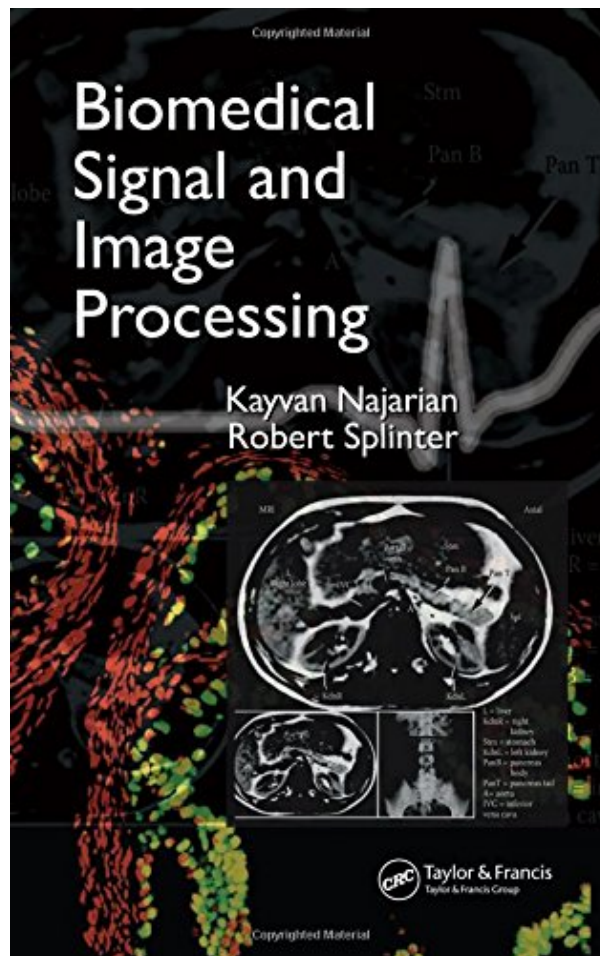
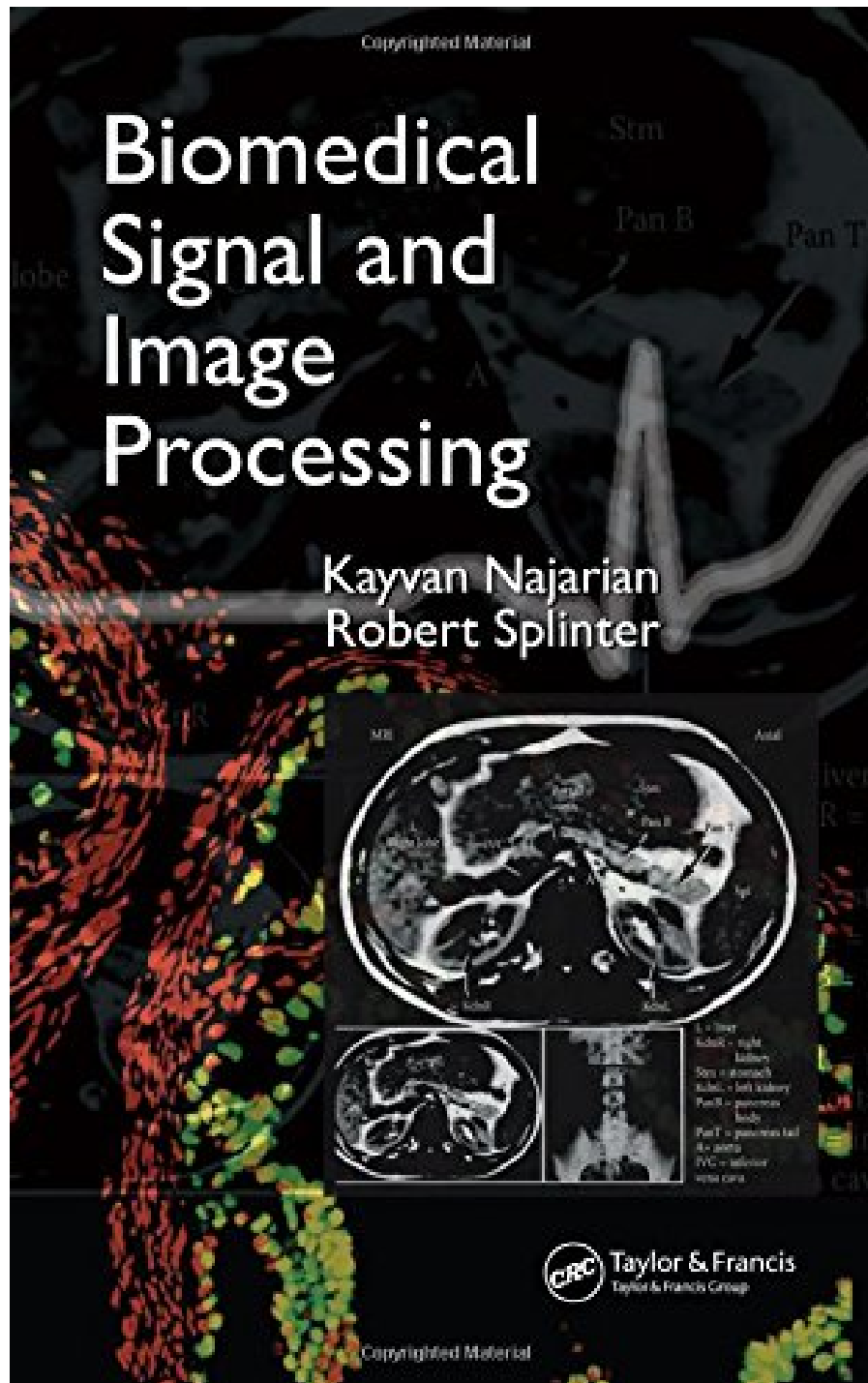


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"This is a great book, ideal for a biomedical signal and image processing course.... a great introduction to the topic, while it also includes advanced topics in the field for graduate courses. ... a great collection of topics [including] introduction 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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All of the biomedical measurement technologies, which are now instrumental to the medical field, are essentially useless without proper signal and image processing. Biomedical Signal and Image Processing is unique in providing a comprehensive survey of all the conventional and advanced imaging modalities and the main computational methods used for processing the data obtained from each.

This book offers self-contained coverage of the mathematics and biology/physiology necessary to build effective algorithms and programs for biomedical signal and image processing applications. The first part of the book details the main signal and image processing, pattern recognition, and feature extraction techniques along with computational methods from other fields such as information theory and stochastic processes. Building on this foundation, the second part explores the major one-dimensional biological signals, the biological origin and importance of each signal, and the commonly used processing techniques with an emphasis on physiology and diagnostic applications, while the third section does the same for imaging modalities.

Throughout the book, the authors rely on practical examples using real data from biomedical systems. They supply several programming examples in MATLAB® to provide hands-on experience and insight

Integrating all major modalities and computational techniques in a single source, Biomedical Signal and Image Processing is a perfect introduction to the field as well as an ideal reference for the established professional.

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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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