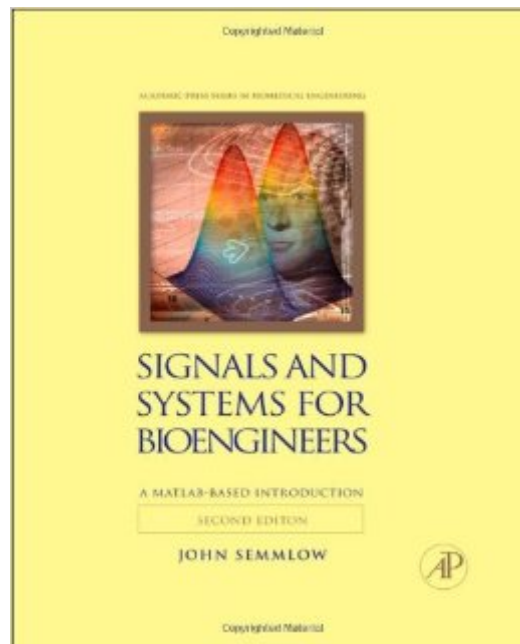


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Signals And Systems For Bioengineers, Second Edition: A MATLAB-Based Introduction (Biomedical Engineering)



Synopsis

This book guides the reader through the electrical engineering principles that can be applied to biological systems and are therefore important to biomedical studies. The basic engineering concepts that underlie biomedical systems, medical devices, biocontrol, and biosignal analysis are explained in detail. This textbook is perfect for the one-semester bioengineering course usually offered in conjunction with a laboratory on signals and measurements which presents the fundamentals of systems and signal analysis. The target course occupies a pivotal position in the bioengineering curriculum and will play a critical role in the future development of bioengineering students. There are extensive questions and problems that are available through a companion site to enhance the learning experience. Reorganized to emphasize signal and system analysis. Increased coverage of time-domain signal analysis. Expanded coverage of biomeasurement, using examples in ultrasound and electrophysiology. New applications in biocontrol, with examples from physiological systems modeling such as the respiratory system. Double the number of Matlab and non-Matlab exercises to provide ample practice solving problems - by hand and with computational tools. More Biomedical and real-world examples. More biomedical figures throughout. For instructors using this text in their course, accompanying website includes support materials such as MATLAB data and functions needed to solve the problems, a few helpful routines, and all of the MATLAB examples. Visit www.elsevierdirect.com and search "Semmlow."

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Customer Reviews

This book has many mistakes throughout the book in critical areas. For example, a practice problem asked a question that has no solution. Also, many examples are difficult to follow with errors common in the problem statements/solutions. Using this book was dead weight for solving homework problems.

This is a good book for learning bio signals. However, it is very MATLAB heavy without using very good examples. Also, homework questions are a little rough. The author expects you to make a lot of assumptions that I felt were out there.

This book has a unique angle, which is MATLAB based, but yet some of the concepts and explanations are confusing. Recommended to people who really know signal processing and electric circuitry well and are interested in MATLAB related skills. If you have no previous knowledge of electric engineering or signal processing or SUPER HARD Fourier Transform stuff, and you happen to have to buy it as a required textbook as my case, go get some other books together with this. Use explanations and concepts from other intro level books and the actual skills from here.

This book is filled with errors and contradicts itself many times. It was a waste of money and you can't trust the text.

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