Circuits, Signals and Systems for Bioengineers, Third Edition: A MATLAB-Based Introduction (Biomedical Engineering)

John Semmlow
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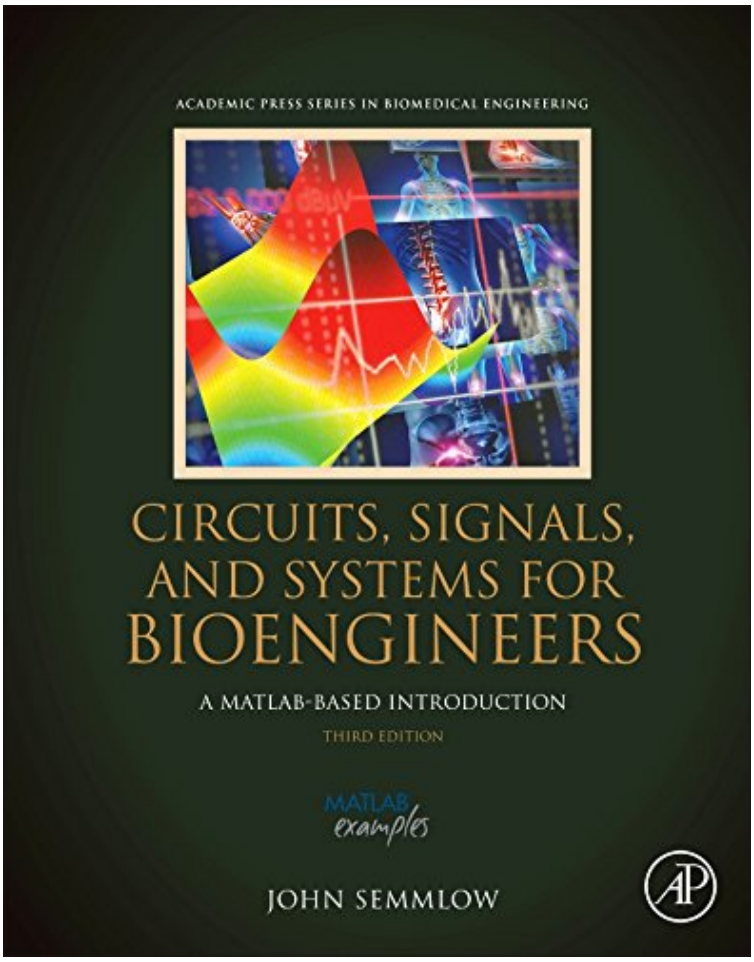

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John Semmlow : Circuits, Signals and Systems for Bioengineers, Third Edition: A MATLAB-Based Introduction (Biomedical Engineering) before purchasing it in order to gage whether or not it would be worth my time, and all praised Circuits, Signals and Systems for Bioengineers, Third Edition: A MATLAB-Based Introduction (Biomedical Engineering):

10 of 10 people found the following review helpful. Typos, typos, and typosBy Jeremy ScheffI remember doing a simple problem in chapter 1 and having to reference the appendix for a trig formula. But, the problem wouldn't work out nicely... so I looked online and realized that the trig formula had a typo in it (sine and cosine switched)!That was only a sign of more things to come. You can't read two sentences without coming over a typo. There are grammar errors, mislabled graphs, and typos in equations. Some of the typos are very confusing too.Here is a list of typos that

my professor found in one chapter:294 Eq. 8.10 Last term should be i(0)L297 Table 8.1 Symbol for impedance of inductor and capacitor should be ZL(s) and ZC(s).298 4th line: we see that as a 0 (not t)299Eq. 8.25 e-s instead of e-st312First term of right side of first equation should be k1/s (not k1/2).315 Example 8.5: "In the mechanical system of Example 8.4..." (not Figure 8.10).321 Eq. 8.58 First limit should be t (not s).321 Third equation: integral sign missing in last term.321 Example 8.8 "Use the final value theorem to find the final value of x(t)..."321 lim t missing from last equation in proof of Eq. 5.58321 Example 8.8 0.5 should be 0.46 in last equation and the final value is 0.92.321 Example 8.8 "...letting t in the..." (not t 0).332 Problem 8 ke = 1000 dynes/cm (add units)It's like that through the whole book. It's just terrible.2 of 2 people found the following review helpful. great for anyone getting into bioengineeringBy Nathan E. LewisI am a biochemistry student who is starting a Bioengineering PhD program in the fall and I have found this book to be a great intro into signals and systems. The example problems in MATLAB have been very helpful and clear. Despite the occasional typo (which is normal for a first edition), it is in general well-written.

Circuits, Signals and Systems for Bioengineers: A MATLAB-Based Introduction, Third Edition, guides the reader through the electrical engineering principles that can be applied to biological systems. It details the basic engineering concepts that underlie biomedical systems, medical devices, biocontrol and biomedical signal analysis, providing a solid foundation for students in important bioengineering concepts. Fully revised and updated to better meet the needs of instructors and students, the third edition introduces and develops concepts through computational methods that allow students to explore operations, such as correlations, convolution, the Fourier transform and the transfer function. New chapters have been added on image analysis, noise, stochastic processes and ergodicity, and new medical examples and applications are included throughout the text.Covers current applications in biocontrol, with examples from physiological systems modeling, such as the respiratory systemIncludes revised material throughout, with improved clarity of presentation and more biological, physiological and medical examples and applicationsIncludes a new chapter on noise, stochastic processes, non-stationary and ergodicityIncludes a separate new chapter featuring expanded coverage of image analysisIncludes support materials, such as solutions, lecture slides, MATLAB data and functions needed to solve the problems