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By Mark Wickert

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Getting mixed signals in your signals and systems course?

The concepts covered in a typical signals and systems course are often considered by engineering students to be some of the most difficult to master. Thankfully, *Signals & Systems For Dummies* is your intuitive guide to this tricky course, walking you step-by-step through some of the more complex theories and mathematical formulas in a way that is easy to understand.

From Laplace Transforms to Fourier Analyses, *Signals & Systems For Dummies* explains in plain English the difficult concepts that can trip you up. Perfect as a study aid or to complement your classroom texts, this friendly, hands-on guide makes it easy to figure out the fundamentals of signal and system analysis.

- Serves as a useful tool for electrical and computer engineering students looking to grasp signal and system analysis
- Provides helpful explanations of complex concepts and techniques related to signals and systems
- Includes worked-through examples of real-world applications using Python, an open-source software tool, as well as a custom function module written for the book
- Brings you up-to-speed on the concepts and formulas you need to know

Signals & Systems For Dummies is your ticket to scoring high in your introductory signals and systems course.

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Editorial Review

From the Back Cover

Learn to:

- Grasp the core concepts of signals and systems for success in the classroom
- Apply complex concepts such as discrete-time and continuous time signals, signal processing, and control systems
- Solve problems and work through real-life examples

Getting mixed signals about signals and systems?

The concepts covered in a typical signals and systems course are often considered by engineering students to be some of the most difficult to master. Thankfully, *Signals & Systems For Dummies* is your intuitive guide to this tricky material, walking you step-by-step through some of the more complex theories and mathematical formulas in a way that's easy to understand.

- Signals and systems 101 — understand the language of signals and systems, and get an overview of the basic concepts and techniques necessary for tackling this course
- The time domain — get a plain-English intro to differential and difference equation system models, which are used to represent electronic circuits, the audio equalizer on your MP3 music player, and more
- Between worlds — drill down on the frequency domain and the world of system design, and bridge the gap between the continuous- and discrete-time worlds
- Know your domain — understand the s- and z-domains — a third domain system that engineers use to view the world — and understand why poles and zeros rule here
- Open source tools — solve example problems with Python using PyLab, along with a custom function module written for the book

Open the book and find:

- Continuous-time signals and systems
- How to establish a general input/output relationship
- Difference equations in the time domain
- Worked through examples of real-world signals and systems applications
- The Fourier transform for continuous-time signals
- The scoop on sampling theory
- The discrete Fourier transform and FFT algorithms
- The Laplace transform for continuous-time signals

About the Author

Mark Wickert, PhD, is a Professor of Electrical and Computer Engineering at the University of Colorado, Colorado Springs. He is a member of the IEEE and is doing real signals and systems problem solving as a consultant with local industry.

Users Review

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Ellen Wirth:

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