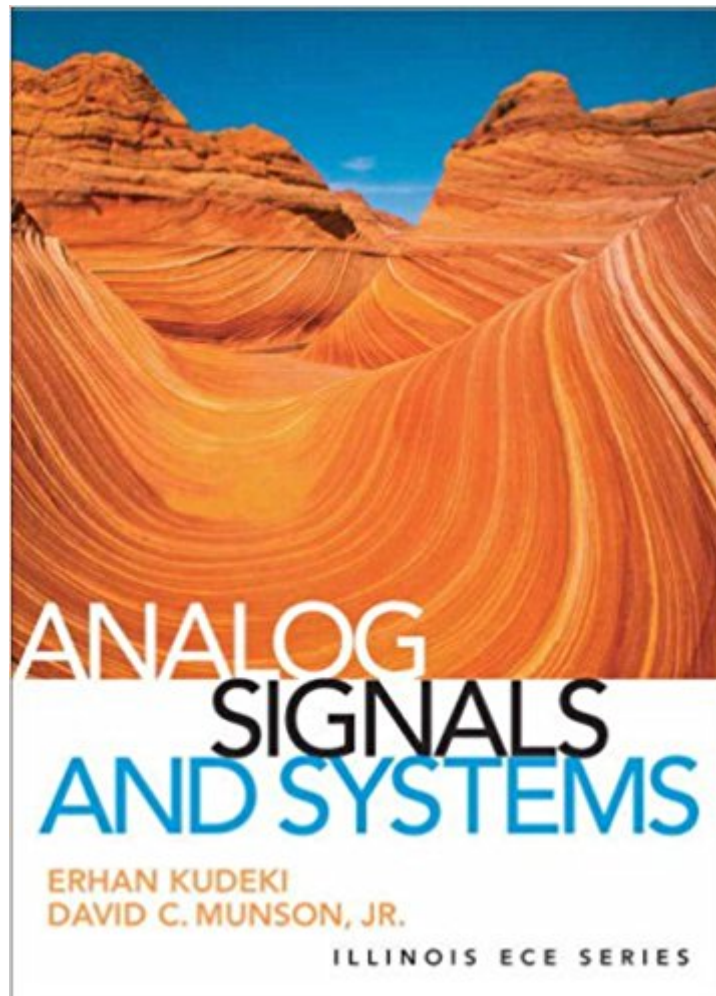




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Analog Signals And Systems



Synopsis

This book focuses on the mathematical analysis and design of analog signal processing using a “just in time” approach • new ideas and topics relevant to the narrative are introduced only when needed, and no chapters are “stand alone.” Topics are developed throughout the narrative, and individual ideas appear frequently as needed.

Book Information

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Customer Reviews

Analog Signals and Systems by Erhan Kudeki (University of Illinois at Urbana-Champaign) and David C. Munson, Jr. (University of Michigan, Ann Arbor) offers a thorough presentation of analog circuit, signal and system analysis techniques by two highly respected authors. This book has been classroom tested for eight years in a sophomore-level course that covers all of the essentials of both circuit analysis and analog signals and systems, leading directly to a junior/senior-level course on digital signal processing. This approach saves time in the curriculum and relates the abstract signals and systems material to circuits used for signal processing. The book is equally useful for a course that follows directly onto a freshman/sophomore course based on Signal Processing First, James H. McClellan, Ronald Schafer, and Mark Yoder, or that follows a standard course on circuit analysis. The pedagogy adopted uses a “just in time” approach in the discussion of:

- Electrical circuit fundamentals
- Analysis techniques of linear circuits
- Linear systems concepts applicable to circuits and signal processors

Frequency domain techniques in circuit and system analysis
Fourier series and transforms with circuit and system applications
Analysis and design of AM radio receiver using Fourier tools
Time-domain description of analog signal processing
Sampling and reconstruction
System stability and implications
Laplace transform with applications in circuit initial value problems
Elements of analog filter design
A suggested set of lab experiments include measurement and/or design projects related to major concepts covered in the classroom
the labs provide students a taste of how signal and system theory applies in practice.

This is one of the best textbooks I've ever had to buy. Incredibly great explanations and examples. If only the ECE 310 textbook could be the same way...

Took ECE 210 and only made it through because of this book. The text presents many topics better than some lecturers. Any EE/CompE students in 210 should have a copy of this book; don't just get the homework problems from classmates.

I purchased this book on another website for \$19.83, plus \$4.40 shipping. It is a decent textbook but I would warn anyone to shop around first before shelling out over \$100 for it. It's well edited, concise and clear. While it doesn't go into a lot of detail of derivations, the main idea is there and for the most part, that's what counts in the type of course this book would be for. It follows a nice path, starting with circuit analysis essentials like Ohm's law and the various conventions that you should follow. It then goes into more complex analysis methods like the node voltage method and loop current method. It explains op-amps, capacitors and inductors then eases you into Fourier and Laplace analysis as well as application of all these methods in AM Radio. If you really are curious about the mathematics describing linear time-invariant systems, this book only grazes it. However, if you want to apply those mathematics, this is the book for you. This book is not 100% required for ECE 210 at UIUC since the homework is posted online, but you'd be a sucker not to get this for all the practice it gives you. Admittedly, my professors just stole book problems and changed the numbers for our homework, but it's nice to see examples of similar problems worked through in this book.

This book has a habit of telling you the answers to the in-chapter exercises while skipping all of the proofs. The title of this review is the three most common phrases in the book. The author seems to

assume that you have already been taught all of the material before seeing this book, or possibly he assumes that you have a complete and unfailing mastery of all mathematical and electrical theorems and identities...so complete that he does not feel the need to even tell you which ones he used for when the student is deriving the answers he provides. The examples contain few errors, but there is an errata online that is not provided by the publisher and takes much searching to find it (I apologize, I lost the link to the errata that I finally found). Without a teacher who has the time to help go through almost every example, the student can be expected to spend hours trying to figure out how a conclusion was reached, the point of the example is not to show you how to decide whether to use a conjugate or "special one" to simplify an equation, but to show you how filters should work (specifically the fifth chapter). This book is unreadable for a student in a ten week course. Our teacher ended up giving us all of the end of chapter solutions ahead of time so that we could reverse engineer the answers and then provided questions of his own devising so that we could finish a test with more than one question in two hours. I recommend that any teachers looking to this book as a possible text book for their class go through it thoroughly to determine if the vagueness is too complicated for their students. I'm certain that the author is a very intelligent and capable person, but in my opinion has not provided a reasonable textbook for pre-graduate students.

Examples in the book are vague and disjointed. The work shown is inconsistent, so it's difficult to compare examples in order to determine variations in how problems are analyzed. This is a difficult book to learn from.

In my experience, Illinois books are long-winded, unclear, and not as helpful as you would hope. It seems the Illinois method of teaching is to talk at a class, and expect the students to have questions, which are directed towards the TAs at office hours, and then brag about how good a school Illinois is. This book fits in nicely with that method. The subject matter is supposedly covered, by the end of chapter problems, but the wordiness of the explanations leaves too many questions. Tables of properties are not easily read either. Any attempt to do the end of chapter problems will need to be graded by a TA because there are no solutions or answers in the back of the book, so you can't judge how effectively you're learning. A good book is a book you can read and know how to do what the book sets out to teach. This is not a good book by that measure. The authors seem to think they did a good job with this book, but there were no effective editors to tell them otherwise. It's pitiful.

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