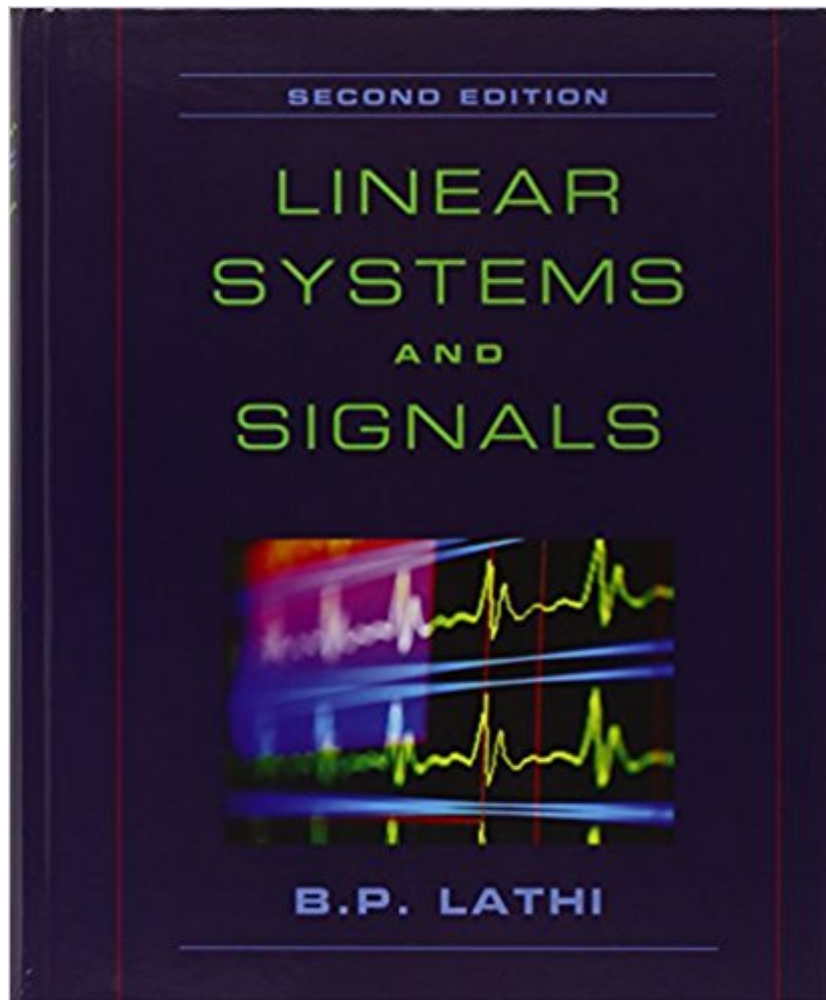




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# Linear Systems And Signals, 2nd Edition



## Synopsis

Incorporating new problems and examples, the second edition of Linear Systems and Signals features MATLAB® material in each chapter and at the back of the book. It gives clear descriptions of linear systems and uses mathematics not only to prove axiomatic theory, but also to enhance physical and intuitive understanding.

## Book Information

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## Customer Reviews

B. P. Lathi is Professor Emeritus of Electrical Engineering at California State University, Sacramento. He is the author of Signal Processing and Linear Systems (OUP, 2000) and Modern Digital and Analog Communications Systems, 3/e (OUP, 1998).

This book is pretty good example of what all can go wrong in a educational text. The black-and-white gets tiresome to go through and makes it even more uninteresting than it may already be for some. There are very little pictures, and whilst there are examples, the text is lacking many specific scenarios that would certainly assist someone attempting to learn about signal processing or any of the topics covered. The questions are often worded a bit obscurely, and the solutions manual is probably incorrect 80% of the time. There is no "answers to odd-numbered exercises" appendix in this text, leading to further frustration with attempting to check work, or get some pointers on how to go about the exercise in general. There are some pretty handy MATLAB examples throughout the text, however, which serve useful in answering problems and studying the

methods to approach certain scenarios with. When looking at the whole picture, though, I cannot recommend this book to anyone who has the choice of purchasing it. It is vaguely written, pretty dry overall (author attempts to use comic scenes occasionally to no effect), and has a horrendous solutions manual with bad questions in general as well.

I have several of Lathi's texts and I have been a 'fan' for years. This text is quite comprehensive, presented at the 'junior' level in Lathi's inimitable style. I like the integrated approach to continuous and discrete time systems. In my opinion this is the best way to present 'signals' material in today's world of technology. Covering discrete/digital alone or continuous/analog alone first and then presenting the other material is 'old school'. Lathi has done a good integration here. This text would make a good introductory textbook on the signals and systems subject and covers more material than could reasonably be covered in a one semester class. Nevertheless that is a good thing, and many students will choose to keep it for future reference in their professional careers. The material is all intrinsic and fundamental and presented in an integrated fashion. Timeless stuff, relevant, will never go out of style.

I don't understand why some people complain about this book. This book has the best explanation. Every theorem is derived from down-to-earth basics. It not only is easier to understand, but also gives intuition to approach advanced problems. One downside is the order of contents. This textbook introduces Laplace and  $z$  before Fourier. I learned by Oppenheim's textbook in the class, but now I use Lathi's textbook as a reference. Lathi's has better explanation overall, especially convolution chapter.

This book has a lot of very good information about systems/signals and the MATLAB portions are very useful and well written. It doesn't claim to be anything more than that. One note of caution: If you are not well versed in filter basics, converting circuits from time to other domains (in particular, Laplace and Fourier transforms), Bode/pole-zero plots or Fourier series, expect to have a lot of difficulty with this book as the short introductions to these concepts are very difficult to grasp without prior experience with them. I found myself referring back to my circuit analysis and calculus books constantly for clues to help me read this. I do have one complaint about this book: In my opinion the chapters do not contain enough information to allow you to confidently solve the chapter exercise problems. Even worse, there are no back-of-the-book answers so you often have no idea if you're doing anything correctly. The solutions manual is also pretty much impossible to find for this version.

so a lot of the exercises involve either looking in other books for answers or blindly shooting in the dark. That said, I definitely think that this book is a keeper for anyone planning on pursuing a career involving signals, communications or controls.

This book is one of the finest written. It's deep with insight; rich in examples and exercises, and leaves nothing untouched. It is large book that spans hundreds of pages, so if you're looking for something slimmed down and bit more superficial that skims the surface of the subject this is not the book for you.

It was an intimidating book at first. After reading it and getting into the material, I found that the book provides information about systems in a straightforward way.

This book is by far one the best books that I have used for my UG education in Electrical Engineering [Third year]. I loved how the book does numerous examples and then give exercises to the reader. Also, the exercises at the end of the chapter reflect the examples so that in-case one is lost on how to do a problem, one does not give up hope. The text is very easy to read and understand [A freshman in EE can just as easily learn the material]. If any student has a horrible professor in this course, this book will help you succeed. The reason I give this book a 4 star is because some of the worked examples skip some very trivial steps. Although as an EE, I should know what is happening, but sometimes recalling basic concepts and ideas become non-trivial. Also, not all the answers of the exercises are given - only random ones. This is more of personal preference but I think it would have been helpful if all the odd answers were given. Nonetheless, this book is definitely a keeper.

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