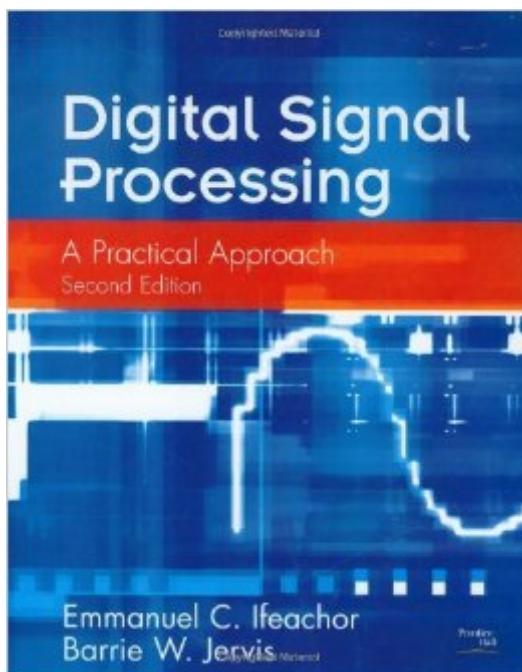


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# Digital Signal Processing: A Practical Approach (2nd Edition)



## **Synopsis**

Modern coverage of the fundamentals, implementation and applications of digital signal processing techniques from a practical point of view. The past ten years has seen a significant growth in DSP applications throughout all areas of technology and this growth is expected well into the next millennium. This successful textbook covers most aspects of DSP found in undergraduate electrical, electronic or communications engineering courses. Unlike many other texts, it also covers a number of DSP techniques which are of particular relevance to industry such as adaptive filtering and multirate processing. The emphasis throughout the book is on the practical aspects of DSP.

## **Book Information**

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## **Customer Reviews**

This is a great book. I will encourage any one doing DSP to read this book. However, some of the theories described in this book are too old. In recent years, there are many important new developments in DSP algorithms. For example, the correlation-signal theory described in this book is fundamentally incorrect (p 199 to p206). Recently, Guo Mian et. al. developed autocorrelation signal to noise ratio (ACSNR) algorithm to precisely determine the Signal to noise ratio(SNR) for an arbitrary data sequence in time domain using correlation method. ( IEEE Trans. Magn. Vol. 29, pp. 3999. Nov. 1993). Signal and the noise can be precisely determined by the correlation function. This method has been widely used in digital recording/telecommunication industries. It has also been implemented in LeCroy digital scopes. I will encourage the author revise his book in the new edition.

This book is pretty good to study DSP with C language. It contains many practical example C source code but this book has many misprint I'll expect that misprint will correct next edition! I'm studying EE course in Chung-Ang Univ. at Seoul Korea.

This book is OK. Its not a very good book as an introduction in my opinion. If you are a new student to DSP I would steer clear of this book and get Oppenheim & Schafer or Proakis & Manolakis first. However, if you are looking for practical coding examples for things, this book is VERY good in that regard. It could be useful to the new student as an alternate reference.

A well written book with a lot of good examples. There are however many printing errors which should be corrected in the next issue.

I have several books that deal with DSP including both the first and second editions of this book. In my current position I don't write much DSP code but a recent project required some filtering and a review of the basics was required. I started with Orfanidis but ended up working examples from Ifeachor. The book has a lot of good information in it and, if you have a background for the material, will get you up to speed quickly. The entire covers most senior and graduate level topics that I've seen. So in the end it's a very good reference to add to a collection. Now, I ordered the hardcover. Apparently it does not exist. The softcover came. I contacted who sent another copy along within a few days, also a soft cover. Here I gave up. More importantly however, there are errors in the book and there is no errata. You can find Prof. Ifeachor's email on the internet and the usual encouragement for feedback is in the forward, but I have not received an answer to my questions. In their defense the book is over 10 years old now and they may have 'moved on'. Nevertheless, I find this book a great addition to my library and recommend it.

This book is the best so far that I have read up to date. I just wish that I was introduced to this book back in my undergrad years in singapore when I found DSP real tough. Superb book, this one is for the lay man!

Is a practical book. I used it for my DSP course in University, UPM. It is very useful also for my current Design Job. Only one topic should be included, Data converters - ADC, DAC, such as SigmaDelta converter.

I am a postgraduate in University of Plymouth and fortunately enough was taught by Prof. Efeachor himself. His book is without doubt one of the most practical orientated DSP book, the writings are concise, terse and vivid. His explanation style is impeccable, Anyway, Prof. Efeachor decades of experience in telecommunication, audio and medical electronics speaks for himself. Grab this book if you want to learn the real magic behind DSP. One catch, there are too many typos in the book. Otherwise I would rate it 5 stars.

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