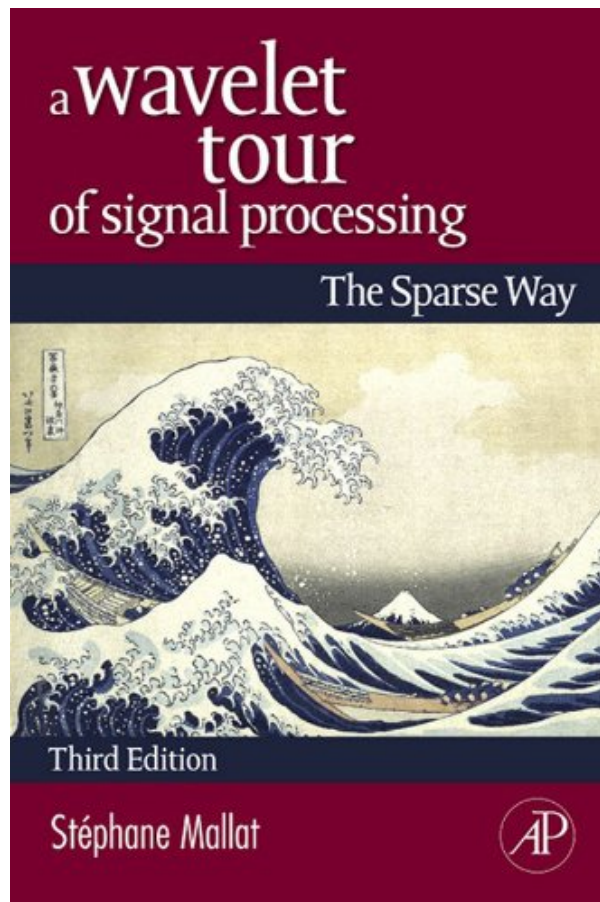


A WAVELET TOUR OF SIGNAL PROCESSING: THE SPARSE WAY BY STEPHANE MALLAT



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Review

"There is no question that this revision should be published. Mallat's book is the undisputed reference in this field – it is the only one that covers the essential material in such breadth and depth." - Laurent Demanet, Stanford University

About the Author

Stéphane Mallat is a Professor in the Computer Science Department of the Courant Institute of Mathematical Sciences at New York University, and a Professor in the Applied Mathematics Department at École Polytechnique, Paris, France. He has been a visiting professor in the Electrical Engineering Department at Massachusetts Institute of Technology and in the Applied Mathematics Department at the University of Tel Aviv. Dr. Mallat received the 1990 IEEE Signal Processing Society's paper award, the 1993 Alfred Sloan fellowship in Mathematics, the 1997 Outstanding Achievement Award from the SPIE Optical Engineering Society, and the 1997 Blaise Pascal Prize in applied mathematics, from the French Academy of Sciences.

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Pretty encyclopedic these days

By Joel Kolstad

Mallat's 800 page tome here is a very encyclopedic coverage of contemporary wavelet techniques and tricks. It takes the form of a "traditional" textbook: While there are some very brief refreshers on linear algebra, calculus, and statistics in an appendix, make no mistake -- there's a lot of advanced mathematics in the book, beyond what many (probably even the majority) of engineers learn during their undergraduate years. Additionally, while there are plenty of good "homework" problems at the end of each chapter, no solutions are provided. This all has several implications:

-- This isn't really the book you want for self-study if you aren't already familiar with wavelets. I'd suggest something like "A Primer on Wavelets and Their Scientific Applications" by Walker for that.

-- It can be a fine book for a college class on wavelets. I suspect the best approach would be for an instructor to use his own notes, assign reading for reinforcement, and problems from the end of each chapter. The deal here is that, in many cases, making good use of the results doesn't always require a full understanding of the mathematical underpinnings of the subject, and an instructor can guide students around what matters if they just want to apply the results (most students) vs. obtaining a deeper understanding that could be used to conduct new research or whatever (the very occasional student).

-- It is, of course, a fine reference for anyone already working in the field and familiar with the subject. Mallat is a pretty brilliant guy.

Note that Google Books has a copy of the earlier 2nd edition on-line; this might be handy for some people. 16 of 18 people found the following review helpful.

Totally unorganized, and impossible to comprehend

By OM

This book may be okay as a reference book for someone who already has a PhD in Mathematics and is very familiar with function spaces and decompositions.

The author has truly advanced the state of the art with his groundbreaking papers in wavelets/filter banks, but he has no business writing a book.

I have been trying to use this as a text book for my image processing with wavelets class and it has given my an enormous amounts of pain an agony. I can not find a single topic that I can read and understand from his book, so I had to look at other references.

In chapter 5 he keeps referring to the fact that you have to read chapter 7 first --- why not reverse the order then?

In chapter 1, he would suddenly start referring to advanced concepts which he has not yet talked about.

Not to mention the large number of typos.

what a mess....2 of 2 people found the following review helpful.

Overwhelming in quality and quantity!

By K. Miller

I picked this book up after talking with some of the DSP guys at my office on what was the best book to get started in field with. Almost all of them had some version of this text on their desk or knew where to get their hands on one. All of them spoke very highly of it and I was excited to find a new edition copy.

Having looked through the book and read the sections relating to stuff I do or have done I have a few observations:

This is an awesome reference book if you remember something from class a few years ago and need a refresher.

Each chapter has a list of questions at the end, sadly I can't find a list of answers in the book or available online.

This is not a book for a beginner. If you don't have a background in the subject or a good source to ask questions of I don't think you'll be able to get much out of it.

I would have benefited from some real time examples either on a CD/website for some of the concepts to bridge the gap between text and application. The book has numerous figures showing various levels of processing that would make a great java applet example. If I was taking a college class I'm sure this would be more accessible, trying to study on my own at home and work it's hard to come by examples that illustrate the cases from the text.

All in all it's an amazing text and reference, just not for the newbie. See all 30 customer reviews...

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