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Conceptual Wavelets in Digital Signal Processing

D. Lee Fugal

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HOW (AND WHY) THIS BOOK IS DIFFERENT

Wavelets are incredibly powerful, but if you can t understand them, you can t use them or worse, blissfully misuse them!

CONCEPTUAL WAVELETS is unique as a complete, in-depth treatment of the subject but from an intuitive, conceptual point of view. In this book we stress informed use of wavelets and leave the mathematically rigorous proofs to other texts. We do look at some key equations (at a high-school algebra level)--but only after the concepts are demonstrated so you can see the wavelets (and their associated equations) in action.

FEATURES

--More than 400 illustrations, figures, graphics, tables, visual comparisons, etc. are provided to simplify and clarify the concepts. All of these visual aids are explained in detail using familiar language and terminology.

--Specific properties and suggested applications of the various wavelets and wavelet transforms are clearly shown using step-by-step walk-throughs, demonstrations, case studies, examples, and short tutorials.

--Numerous Jargon Alerts and other Plain English explanations bring you up to speed with the current wavelet nomenclature.

--References to some of the best traditional (and non-traditional) texts, papers, and websites are given for further application-specific study. We also familiarize you with wavelet software and show you how to read the results of their various displays.

--Both the strengths and the weaknesses of the various wavelet transforms are revealed to help you avoid common traps and pitfalls (such as loss of alias cancellation).

--This book clearly explains how to add (literally) another dimension to your signal processing capability by using wavelets to simultaneously determine the frequency, the time, and even the general shape of events and/or anomalies in your data.

The last acknowledgment is to you, the reader, for having the courage to embark on a journey that you

probably have heard was difficult but that has the promise of rich rewards as you add the power of wavelet processing to your professional repertoire.

John A. Shedd in 1928 wrote A ship in harbor is safe but that is not what ships are built for . As you leave the safe harbor of conventional Digital Signal Processing to sail upon the wavelets, may you find the treasures you seek. Welcome Aboard!

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