

## *Wavelets And Allied Topics*







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In fact some wavelets (for instance, the Haar wavelet, Figure 7.25(a)) have a boxlike shape. For the most part a wavelet has a localised wave-like shape and is designed to emphasise particular aspects of the signal to be analysed. Libraries of wavelets can be found in Mathematica ® and some examples are shown in Figure 7.25.

**Wavelet - an overview | ScienceDirect Topics**

Prestin, J. (2001) Trigonometric Wavelets. In: Jain, P.K., et al., Eds., Wavelet and Allied Topics, Narosa Publishing House, New Delhi, 183-217. has been cited by the following article: TITLE: Numerical Solution of Second-Order Linear Fredholm Integro-Differential Equations by Trigonometric Scaling Functions

**Prestin, J. (2001) Trigonometric Wavelets. In: Jain, P.K ...**

Chapter 4 covers the introductory study of cardinal splines, while Chapter 5 describes a general approach to the analysis and construction of scaling functions and wavelets. Spline-wavelets are deliberated in Chapter 6. The last chapter is devoted to an investigation of orthogonal wavelets and wavelet packets.

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Despite their novelty, wavelets have a tremendous impact on a number of modern scientific disciplines, particularly on signal and image analysis. Because of their powerful underlying mathematical theory, they offer exciting opportunities for the design of new multi-resolution processing algorithms and effective pattern recognition systems.

**Wavelets in Signal and Image Analysis - Google Books**

Igor V. Florinsky, in Digital Terrain Analysis in Soil Science and Geology (Second Edition), 2016 6.2.4 Two-Dimensional Discrete Wavelet Transform. The wavelet transform is signal decomposition using a system of wavelets, that is, functions each of which is a shifted and scaled copy of a function, the mother wavelet.



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