Discrete Wavelet Transform: A Signal Processing Approach

D. Sundararajan

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Provides easy learning and understanding of DWT from a signal processing point of view

- Presents DWT from a digital signal processing point of view, in contrast to the usual mathematical approach, making it highly accessible
- Offers a comprehensive coverage of related topics, including convolution and correlation, Fourier transform, FIR filter, orthogonal and biorthogonal filters
- Organized systematically, starting from the fundamentals of signal processing to the more advanced topics of DWT and Discrete Wavelet Packet Transform.
- Written in a clear and concise manner with abundant examples, figures and detailed explanations
- Features a companion website that has several MATLAB programs for the implementation of the DWT with commonly used filters

"This well-written textbook is an introduction to the theory of discrete wavelet transform (DWT) and its applications in digital signal and image processing."
-- Prof. Dr. Manfred Tasche - Institut für Mathematik, Uni Rostock

Full review at https://zbmath.org/?q=an:06492561

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