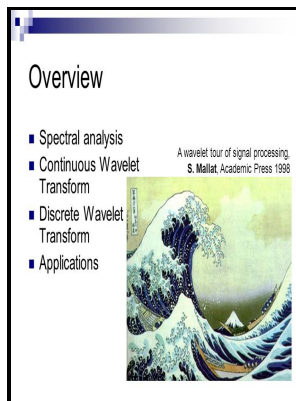


Wavelets - theory and applications

Wiley - Wavelets: Theory and Applications for Manufacturing, Gao, Robert X, Yan, Ruqiang, eBook



Description: -

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Italy -- Description and travel

China -- Politics and government -- 1900-1949 -- Sources

Revolutions -- China

Thoreau, Henry David, -- 1817-1862

Communist revisionism

Wavelets (Mathematics)Wavelets - theory and applications

-

New perspectives in history

Pure and applied mathematics (John Wiley & Sons : Unnumbered)

Pure and applied mathematicsWavelets - theory and applications

Notes: Includes bibliographical references (p. [313]-319) and index.

This edition was published in 1997



Filesize: 58.12 MB

Tags: #Wavelets: #Theory #and #Applications #for #Manufacturing, #Gao, #Robert #X, #Yan, #Ruqiang, #eBook

Wavelets: Theory and Applications (ICASE/LaRC Series in Computational Science and Engineering): Erlebacher, Gordon, Hussaini, M. Yousuff, Jameson, Leland M.: 9780195094237: styleguide.expo.io: Books

Wavelet functions and transforms have their analogs in the world of Fourier, with sines and cosines replaced by more exotic wavelets that still have up-down oscillatory behavior, but are often restricted to non-zero values on a finite interval. Continuing through this part of the book, the next topic is the Daubechies wavelets, followed by several other wavelet families e. Part II looks at the use of multiscale harmonic analysis for understanding the geometry of large data sets and extracting information from them.

Wavelets and Multiscale Analysis

The Fourier transform is applied to generate some formulas, which then leads to multiple methods to generate a wavelet from its filter coefficients or the scaling function.

Wavelets: Theory and Applications for Manufacturing, Gao, Robert X, Yan, Ruqiang, eBook

In the second category are books for which proofs are less frequent, so the Fourier transform does not play a large role, at least initially.

Wavelets and Multiscale Analysis

These foundational ideas are used throughout the book in the explanations, derivations, and proofs that follow.

Wavelets and Multiscale Analysis

Several graphs of wavelet functions are included. This book gives scientists and engineers a practical understanding of wavelets--their origins, their purpose, their use, and their prospects. Part I Mathematical Foundations states some results from linear algebra and functional analysis — types of spaces, inner products, projections, and series of functions, followed by a speedy tour of Fourier analysis.

Wavelets: Theory and Applications (ICASE/LaRC Series in Computational Science and Engineering): Erlebacher, Gordon, Hussaini, M. Yousuff, Jameson, Leland M.: 9780195094237: styleguide.expo.io: Books

The study of wavelets remains a very active field of research, and many of its central techniques and ideas have evolved into new and promising research areas.

Wavelets: Theory and Applications for Manufacturing, Gao, Robert X, Yan, Ruqiang, eBook

The latter half of such books move into more sophisticated mathematical treatments and will feature special topics of interest. Given the widespread utilization of rotating machines in modern manufacturing and the increasing need for condition-based, as opposed to fix-interval, intelligent maintenance to minimize machine down time and ensure reliable production, it is of critical importance to advance the science base of signal processing in manufacturing.

Wavelets Theory and Its Applications

Parts I and II each conclude with a page of exercises. Key ideas are quickly introduced, such as multiresolution analysis, scaling functions, associated dilation equations, and high- and low-pass filter coefficients. In Part III, we read about a number of numerical methods for differential equations, including Wavelet-Galerkin and optimized methods.

Related Books

- [Chevalier et la mort - un Cévenol au service du roi, Louis d'Assas \(1733-1760\), tombé au champ d'hon](#)
- [Tazkirah-yi muntāz shu'arā'e Bundelkhand](#)
- [18 part songs - for unacc. choir](#)
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