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Most existing books on wavelets are either too mathematical or they focus on too narrow a specialty. This book provides a thorough treatment of the subject from an engineering point of view. It is a one-stop source of theory, algorithms, applications, and computer codes related to wavelets.

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Fundamentals of wavelets : theory, algorithms, and applications / Jaideva C. Goswami, Andrew K. Chan.-2nd ed. p. cm.-(Wiley series in microwave and optical engineering; 219) ISBN 978-0-470-48413-5 (hardback) 1. Wavelets (Mathematics) 2. Image processing-Mathematics. 3. Electromagnetic waves- Scattering-Mathematical models. 4.

Fundamentals of Wavelets

Fundamentals of Wavelets is an essential introduction to wavelet theory for students and professionals alike in a practical, real-world engineering context. It is ideally suited for senior and graduate students in electrical engineering, physics, and mathematics; research engineers and physicists; and design and software engineers in the telecommunications and signal processing industries.

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Fundamentals of Wavelets: Theory, Algorithms, and ...

It discusses the fast integral wavelet transform (FIWT). Other wavelets and algorithms such as ridgelets, curvelets, complex wavelets, and lifting algorithm are briefly described. Computation of the integral ridgelet transform is very cumbersome and inefficient. The first-generation curvelet is based on the extension of ridgelet transform in the blocks of subband images of the original image.

Special Topics in Wavelets and Algorithms - Fundamentals ...

Summary. The 2D wavelet signal processing mainly involves image compression and target identification. Problem areas include noise reduction, signature identification, target detection, signal and image compression, and interference suppression. This chapter gives several examples to demonstrate the advantages and flexibility of using wavelets in signal and image processing.

Digital Signal Processing Applications - Fundamentals of ...

Multiresolution analysis (MRA) forms the most important building block for the construction of scaling functions and wavelets and the development of algorithms. This chapter begins with an understanding of the requirements of MRA. It explains two-scale relations and decomposition relations. Cardinal B-splines, generate an MRA and form the basis of most of the wavelets that are discussed in the chapter.

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