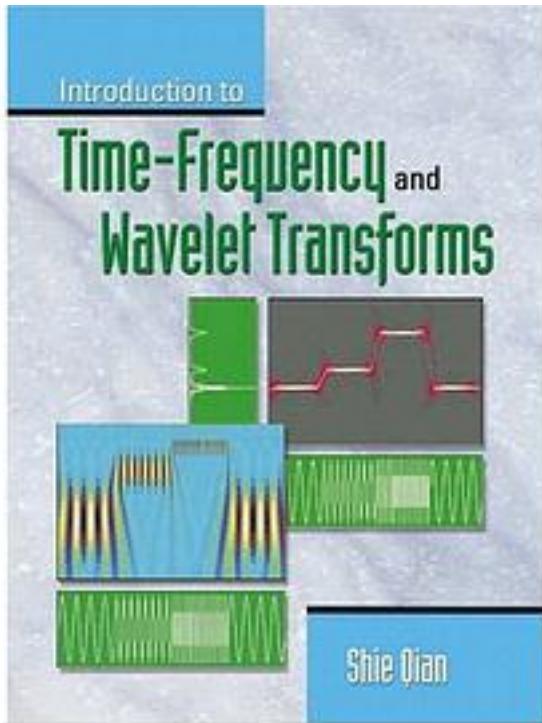


Introduction to Time-Frequency and Wavelet Transforms



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"Introduction to Time-Frequency and Wavelet Transforms" takes a heuristic approach to time-frequency and wavelet analysis, drawing upon the engineer's intuition, not abstract equations. Discover how to identify applications, choose approaches, and successfully apply time-frequency and wavelet analysis. Shie Qian presents multiple real-world applications -- many previously unpublished. All algorithms are drawn from commercial software, and all examples are available for download.

作者介绍:

Shie Qian has contributed to Introduction to Time Frequency and Wavelet Transforms as an author. Qian was the leading DSP researcher at National Instruments. Now he is in charge of Shanghai R&D department at SRS Labs. He has been working on the theory and applications of time-frequency and wavelet analysis for over ten years, in applications including rotating machinery, communications, radar, seismology, and biomedicine. He holds eight patents.

目录:

- * Discrete, period discrete, and orthogonal-like Gabor expansions
- * Short-time Fourier transforms
- * Fast algorithms for computing dual functions
- * Linear time-variant filters
- * Fundamental wavelet transform concepts
- * Bilinear time-frequency representations, including Wigner-Ville distribution and decomposition
- * Cohen's Class and other time-dependent power spectra
- * Combining time-frequency and time-scale (wavelet) decomposition
- • • • • (收起)

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标签

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评论

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书评

公司manager写的书

比较工程性的介绍时频分析 (Gabor, Wavelet等) , 比较适合engineer的一本书, 其中书中前部分介绍时域到频域的转换部分非常具有启发性。

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