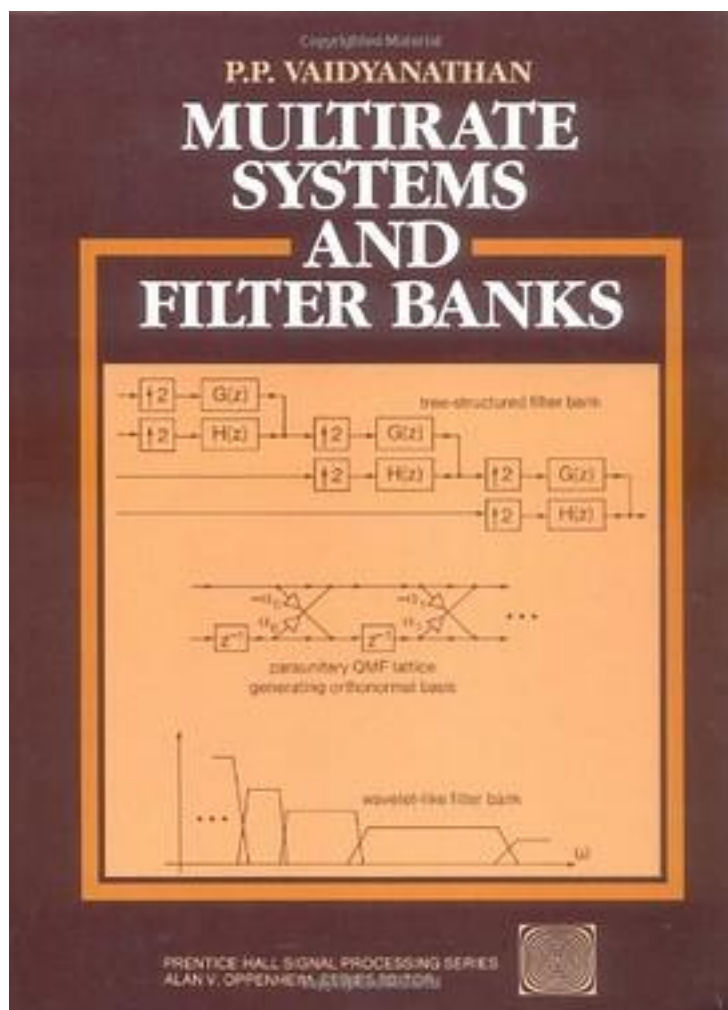


Multirate Systems And Filter Banks



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60571-7 Multirate signal processing has recently witnessed a great deal of activity, with

a wide range of applications in signal coding and compression, in image processing, multiresolution and wavelet analysis. Multirate Systems and Filter Banks is a completely up-to-date and in-depth treatment of the fundamentals as well as recent advancements in this field. This is a self-contained text providing both theoretical developments and design tools. The book will form a basis for graduate courses in multirate signal processing. Its encyclopedic nature also makes it a unique reference for researchers. The design methods and examples provide a valuable source of information for the practicing professional. Contents: *Review of discrete-time systems and digital filters *Multirate signal processing fundamentals *Multirate filter banks and perfect reconstruction systems *Paraunitary filter banks *Extended lapped orthogonal transforms *Roundoff noise analysis *Wavelet transforms and relation to multirate filter banks *Multidimensional multirate systems *Review of multi-input multi-output systems *Detailed study of paraunitary systems *Five appendices on topics such as subband quantization, transform coding, spectral factorization, matrix theory, and random processes. The text contains over 400 illustrations. There are many well-chosen examples and design-examples, and over 300 problems to be solved.

作者介绍:

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评论

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书评

排版减一星. 语言的确高度浓缩, 有时浓缩到知其然不知其所以然...
适合知其然不知其所以然地入门, 大量推导过程被省略直接给出结果,
听说作者是engineer出身, 果然有engineer的风格...
所以在读惯了罗嗦型砖头书后再读这本有点小不习惯...

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