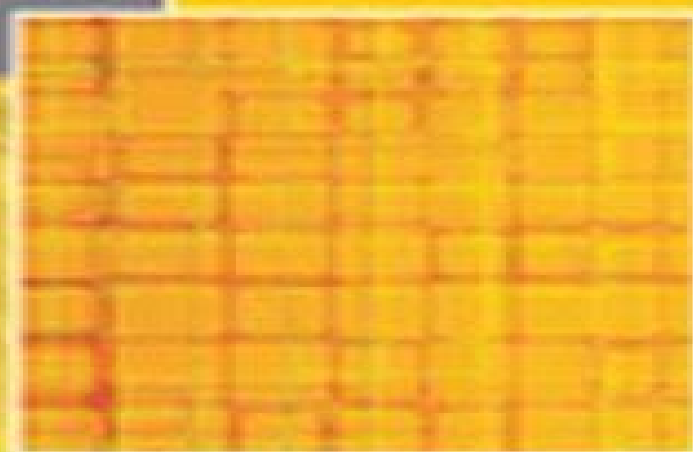




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Window functions have been successfully used in various areas such as filtering beam forming and multirate signal processing Due to available closed form expressions the role of windows is economical One of the key applications is the design of FIR filters These filters are used in decimators and interpolators which are the basic building blocks for any multirate system and filterbank In present scenario a system with an improved performance better quality little error is the prime requirement With this objective FIR multirate filters are designed using window functions These functions can be used to design half band filters where fifty percent filter coefficients result with zero value With bandpass filters more than seventy percent zero valued coefficients are obtained if they preserved the concept of half band symmetry On the basis of error criterion filterbanks are of two types viz pseudo filterbanks and perfect reconstructed filterbanks A new linear optimization algorithm is applied to obtain the pseudo filterbanks Lag windows can be used to design energy efficient filters called compaction filters The compaction gain is very near to optimal ones *Multidimensional Filter Banks and Wavelets* Sankar Basu, Bernard C. Levy, 1996-07-31 Multidimensional Filter Banks and Wavelets Basic Theory and Cosine Modulated Filter Banks brings together in one place important contributions and up to date research results in this important area Multidimensional Filter Banks and Wavelets Basic Theory and Cosine Modulated Filter Banks serves as an excellent reference providing insight into some of the most important research issues in the field Statistical Optimization of Multirate Systems and Orthonormal Filter Banks Jamal Tuqan, P. P. Vaidyanathan, California Institute of Technology. Division of Engineering and Applied Science, 1998

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