Algebraic design of some equiripple linear phase half-band FIR filters

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References:

Abstract:
A closed form solution for the approximation of a linear-phase FIR (finite impulse response) filter with equiripple magnitude response in the passband and stopband was not known. In this letter we present a closed form solution of some equiripple linear-phase half-band FIR filter approximation.

Keywords:
Linear-phase, Optimal FIR filter, Half-band filter