Digital filters
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DTLTI Systems, Transfer Functions, and the Z-transform

Explanation of Discrete Time Linear Time-Invariant Systems, transfer functions, and the Z-transform.

Discretization

Converting continuous-time filters to discrete-time filters.

Exponential Moving Average

Digital exponential moving average filters explained, as well as an implementation in C++, and simulation in MATLAB.

Simple Moving Average

Digital simple moving average filters explained

Simple Finite Impulse Response Notch Filter

Designing a simple FIR notch filter to suppress a single frequency.