Digital Filters & Systems

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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.

🗀 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.

🗀 Discretization
Converting continuous-time filters to discrete-time filters.

Simple Finite Impulse Response Notch Filter
Designing a simple FIR notch filter to suppress a single frequency.