VU Meters

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This page derives the equations used for simulating an analog moving coil VU meter in the digital domain.

Model of a moving-coil galvanometer

Derivation of the mechanical model of a moving-coil galvanometer.

The Damped Harmonic Oscillator

Discussion of the damped harmonic oscillator: Solving the differential equation, determining the step response, overshoot, rise time, etc.