EECS 16B CSM

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Linear Time Invariant Systems

- Linearity: $F\{ax_1[t] + bx_2[t]\} = aF\{x_1[t]\} + bF\{x_2[t]\}$
- Time Invariance: $y[t - t_0] = F\{x[t - t_0]\}$
- Causality: $y[t] = F\{x[t], x[t - t_0]\}$

Moore-Penrose Pseudoinverse

- application of SVD
- finds inverses of non-invertible matrices