Plan of the Lecture

- Review: state-space notions: canonical forms, controllability.
- ► Today's topic: controllability, stability, and pole-zero cancellations; effect of coordinate transformations; conversion of any controllable system to CCF.

Goal: explore the effect of pole-zero cancellations on internal stability; understand the effect of coordinate transformations on the properties of a given state-space model (transfer function; open-loop poles; controllability).

Reading: FPE, Chapter 7