



planetmath.org

Math for the people, by the people.

controllability

Canonical name	Controllability
Date of creation	2013-03-22 14:31:48
Last modified on	2013-03-22 14:31:48
Owner	GeraW (6138)
Last modified by	GeraW (6138)
Numerical id	6
Author	GeraW (6138)
Entry type	Definition
Classification	msc 93B05
Synonym	controllability
Synonym	controllable
Synonym	completely controllable
Related topic	LinearTimeInvariantLTISystems
Related topic	OutputControllability

A control system is said to be (completely) controllable if, for all initial times and all initial states, there exists some input function (or sequence for discrete systems) that drives the state vector to any final state at some finite time.