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## **Linear State-Space Control Systems**

State-space representation. The "state space" is the Euclidean space in which the variables on the axes are the state variables. The state of the system can be represented as a vector within that space. To abstract from the number of inputs, outputs and states, these variables are expressed as vectors.

## **LINEAR STATE-SPACE CONTROL SYSTEMS**

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## **State-space representation - Wikipedia**

Fundamentals of linear state space systems by John S. Bay, 1999, WCB/McGraw-Hill edition, in English

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Fundamentals of Linear State Space Systems vii parallel presentation gives us the flexibility to introduce examples from either domain at our convenience. For example, controllability

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tests are particularly easy to derive in discrete-time, so that is where they should be first introduced.

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Session Topic 1. State space models of linear systems 2. Solution to State equations, canonical forms 3. Controllability and observability 4. Stability and dynamic response 5. Controller design via pole placement 6. Controllers for disturbance and tracking systems 7.

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Fundamentals of Linear Control. Mauricio de Oliveira. Supplemental material for Chapter 5. Before You Start. ... One operates with state-space objects the same way as with transfer-function objects. For example the command step calculates the step response and produces a plot as in:

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how linear state equations arise from the linearization of a nonlinear state equation about a nominal trajectory or equilibrium condition. This chapter also initiates our use of the MATLAB software package for computer-aided analysis and design of linear state-space control systems. Beginning here and continuing throughout the book, features of



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Solutions for Fundamentals of Linear State Space Systems by John S Bay ISBN: 0256246394 Chapter 2 Problems Problem 2.1

a) no b) Yes c) No d) No Problem 2.4  $\mathbf{b} =$

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## **Fundamentals of Linear Control**

[Bay99] John S. Bay, Fundamentals of Linear State Space Systems, 1999. Online access [WL07] Robert L. Williams II and Douglas A. Lawrence, Linear State-Space Control Systems, Wiley, 2007. UIC access [AM07] Panos J. Antsaklis and Anthony N. Michel, A Linear Systems Primer, Springer, 2007.

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to motivate the introduction of state-space models. The state-space formalism provides a framework for computing linearized models from nonlinear differential equations, and sometimes relate the stability of the linearized model to the stability of a more complex nonlinear model. We finish with a discussion about possible issues that can arise when a linear controller is used in feedback