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

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The book uses the geometric intuition provided by vector space analysis to develop in a very sequential manner all the essential topics in linear state system theory that a senior or beginning graduate student should know.

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### LINEAR STATE-SPACE CONTROL SYSTEMS

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. Observer based compensator design 8. Linear quadratic optimal control 9.

### Linear State-Space Control Systems

Linear systems Example: continuous-time LTI case. The stability of a time-invariant state-space model can be determined by looking at... Controllability. The state controllability condition implies that it is possible – by admissible inputs – to steer the... Observability. Observability is a measure ...

### State-space representation - Wikipedia

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