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 Feedback Control of Dynamic Systems
 The purpose of this module is to provide an overview of fundamental feedback control system analysis and design concepts. Students will be exposed to block diagram analysis, analysis using Laplace transforms, modeling of dynamical systems, linearization, transient analysis, sinusoidal steady state analysis, stability, design specifications, internal model principle, root locus and Bode plot analysis, polar plots, stability margins, and computer aided design.
 EEE-480/591: Feedback Control Systems
 Recap and Today's Topics • In the last lecture, we discussed the concept of an equilibrium point and used phase portraits to visualise 2D system behaviour. • The goal of control is to make the desired state value an asymptotically stable equilibrium point of the controlled system such that today's topics are: • Definition of stability • Stability of linear dynamical systems
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 Feedback Control of Dynamics Systems is a good book for learning about controlling dynamic systems with feedback loops. It provides a general review of previous concepts learned in detail in other courses (ie Laplace transforms, Transfer Functions, and etc) and provides a good detailed information about automatic controls.
 Feedback control is an interdisciplinary field in that control is applied to systems in every conceivable area of engineering. Consequently, some schools have separate introductory courses for control within the standard disciplines and some, such as Stanford University, have a single set of courses taken by students from many disciplines.
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A hybrid control system is a feedback system whose variables may flow and, at times, jump. Such a hybrid behavior can be present in one or more of the subsystems of the feedback system: in the system to control, i.e., the plant; in the algorithm used for control, i.e., the controller; or in the subsystems needed to interconnect the plant and the controller, i.e., the interfaces/signal ...

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A closed-loop controller uses feedback to control states or outputs of a dynamical system.

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Feedback Control of Dynamics Systems is a good book for learning about controlling dynamic systems with feedback loops. It provides a general review of previous concepts learned in detail in other courses (ie Laplace transforms, Transfer Functions, and etc) and provides a good detailed information about automatic controls.

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Recap and Today's Topics • In the last lecture, we discussed the concept of an equilibrium point and used phase portraits to visualise 2D system behaviour. • The goal of control is to make the desired state value an asymptotically stable equilibrium point

of the controlled system such that today's topics are: • Definition of stability • Stability of linear dynamical systems [Journal of Dynamical and Control Systems](#)

The purpose of this module is to provide an overview of fundamental feedback control system analysis and design concepts. Students will be exposed to block diagram analysis, analysis using Laplace transforms, modeling of dynamical systems, linearization, transient analysis, sinusoidal steady state analysis, stability, design specifications, internal model principle, root locus and Bode plot analysis, polar plots, stability margins, and computer aided design.

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