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Control theory - Wikipedia

A dynamical system is a manifold M called the phase (or state) space endowed with a family of smooth evolution functions ϕ_t that for any element of $t \in T$, the time, map a point of the phase space back into the phase space. The notion of smoothness changes with applications and the type of manifold. There are several choices for the set T . When T is taken to be the reals, the dynamical ...

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Each of the variables listed in Problem can be brought under feedback control. Describe an actuator that could accept an electrical input and be used to control the variables listed. Give the units of the actuator output signal. Problem. Feedback control requires being able to sense the variable being controlled.

am07 - cds.caltech.edu

FEEDBACK EXAMPLES 5. namics in the system (parameter errors, unmodeled effects, etc). The algorithm that computes the control action as a function of the sensor values is often called a control law. The system can be influenced externally by an operator who intr o- duces command signals to the system.

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However, for a complete treatment of feedback control using digital computers, the reader is referred to the companion text, Digital Control of Dynamic Systems, by Franklin, Powell, and Workman. In Chapter 9 the three primary approaches are integrated in several case studies and a framework for design is described that includes a touch of the real-world context of practical control design.

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Feedback Control of Dynamic Systems, 8th Edition, covers the material that every engineer needs to know about feedback control—including

concepts like stability, tracking, and robustness. Each chapter presents the fundamentals along with comprehensive, worked-out examples, all within a real-world context and with historical background provided.

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As you will see in future chapters, feedback control of such a system with a triple integration is tricky and needs signi...cant damping in the feedback path to achieve stability. Problems and ...

Dynamical system - Wikipedia

main parameters under feedback control: the density of bers as controlled by the consistency of the thick stock that flows from the headbox onto the wire, and the moisture content of the nal product that comes out of the

Course Description. It is of particular interest to analyze systems obtained as interconnections (e.g., feedback) of two or more other systems. We will learn how to design (control) systems that ensure desirable properties (e.g., stability, performance) of the interconnection with a given dynamic system.

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