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Intro

List all systems

Schematic Controls Diagram

Sequence Modes of Operation

Project Requirements

Points List

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VARYING SIGNAL

MINIMUM COMPONENTS OF A DDC CONTROLLER

SPECIFYING CONTROL SYSTEM

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Intro

Outline

Basic Components of a Control System

Terminology

Control Loop Example

Open and Closed Control Loops

Open Loop Control

Closed Loop Control with Reset

Control Action and Response

Control Action - Perfect Control

Control Action - Two-position Control

Control Action - Floating Control

Control Action - Modulating Control

Control Loop Tuning - Out of Tune Loop

Control Loop Tuning - Tuned Loop

Control Sequences of Operations

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Basic HVAC Controls

On/Off Control

Sensors , Controllers & Controlled Devices

Split-System HVAC Unit

VAV Box Controller

Sequence of Operation

Points List

Control Drawings

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22,622 views 2 years ago 18 minutes - Slipstream's Kevin Frost explains what's actually controlling the HVAC **system**, that maintains the climate of your building.

Intro

Outline

A Simplified BAS Architecture

Basic Components of a Control System

Sensor / Input Device

Binary Input Devices

Analog Sensors

Field Controller Inputs/Outputs

Controllers

Controlled Devices - Binary Output

Controlled Devices - Analog Output

Controlled Devices - Control Dampers

Controlled Devices - Control Valves

Controlled Devices - Variable Frequency Drives (VFD)

Control Example

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Intro to Direct Digital Control (DDC) Systems - Webinar 5/22/20 - Intro to Direct Digital Control (DDC) Systems - Webinar 5/22/20 by Tec Tube 6,091 views 1 year ago 1 hour, 43 minutes - All right so what we've been talking about thus far is closed loop **control**, i mean i have that feedback that we had needed there's ...

Digital control theory: video 1 Introduction - Digital control theory: video 1 Introduction by Franky De Bruyne 11,706 views 3 years ago 43 minutes - Introduction Introduction: 00:00 Outline: 00:14 Practicalities: 05:43 References: 08:07 Geometrical series: 08:34 Padé ...

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The Complete Feedback Control Structure

Complete Feedback Loop

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Classify Feed-Forward or Feedback Control

Surge Tank

Level Transmitter

Scrubbing Reactor

Design a Feedback Control System

Feedback Controller

Add a Feed-Forward Element

Olefin Furnace

Block Diagram for the Feedback Control System

Block Diagram

Feed-Forward Strategy

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Intro

Scope of Hybrid Systems Research

Motivation and Approach Common features in applications

Recent Contributions to Hybrid Systems Theory Autonomous Hybrid Systems

Related Work A (rather incomplete) list of related contributions: Differential equations with multistable elements

A Genetic Network Consider a genetic regulatory network with two genes (A and B). each encoding for a protein

The Boost Converter

Modeling Hybrid Systems A wide range of systems can be modeled within the framework Switched systems Impulsive systems

General Control Problem Given a set A and a hybrid system H to be controlled

Lyapunov Stability Theorem Theorem

Hybrid Basic Conditions The data (C, D, θ) of the hybrid system

Sequential Compactness Theorem Given a hybrid system satisfying the hybrid basic conditions, let Invariance Principle Lemma Let ϕ be a bounded and complete solution to a hybrid system H satisfying the hybrid basic conditions. Then, its ω -limit set

Other Consequences of the Hybrid Basic Conditions

Back to Boost Converter

Conclusion Introduction to Hybrid Systems and Modeling Hybrid Basic Conditions and Consequences

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What is PID

PID Control

PID Temperature

PID Example

PID Overview

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What is an example of an open loop system?

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How Feedforward Can Remove Bulk Error
How Feedforward Can Remove Delay Error
How Feedforward Can Measure Disturbance
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Analog Circuits and Systems

Review

Lock Range: Automatic Gain Controller

FLL - Lock Range

Simulation 2: Within lock Range - Upper Limit

Simulation 3: Outside lock Range

Noise, Distortion and Offset Reduction in Feedback

Lock Range of a Current Amplifier

Distortion caused by non-linearity

Dynamic Behavior of Feedback Systems

Linear Feedback Systems

Magnitude and phase plots (Bode plots)

Step response of the second order system

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