

Control battery cabinet





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[Cascade Control , Basic Process Control Strategies and ...](#)

Thus, a cascade control system consists of two feedback control loops, one nested inside the other: A very common example of cascade control is a valve positioner, which ...

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Control Valve Characterization

Control Valve Characterization Control valves are supposed to deliver reliable, repeatable control of process fluid flow rate over a wide range of operating conditions. As we ...

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[Variable Frequency Drives \(VFDs\) In Motor Control](#)

The variable frequency drive unit solves the challenges of driving a 3-phase motor with careful speed control and efficiency, without being overly cost-prohibitive in most cases. ...

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[Pneumatic Valve Operation: Manual, Pilot, and Solenoid](#)

Learn about various ways to activate directional control valves for fluids using manual input, air pilot sources, and electrical controls. Sometimes, valves even use a mix of ...

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Split-Range Control

There are many process control applications in the industry where it is desirable to have multiple control valves respond to the output of a common controller. Control valves ...

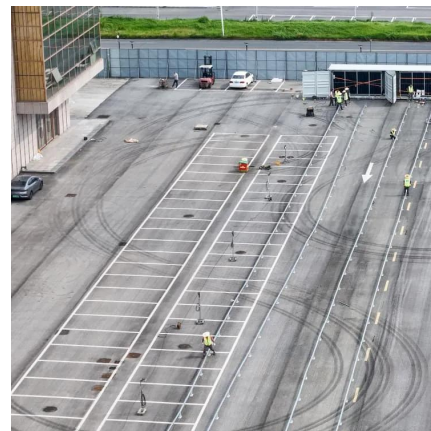
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[DCS vs. SCADA: What's the Difference?](#)

Controlling and optimizing plant processes is the goal of most control systems. It can be a challenge to distinguish between different types of control: a DCS or a high-level ...

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DC Motor Speed Control

The "phase control" circuitry manages all this pulse timing and generation. A DC motor drive that simply varied power to the motor according to a control signal would be crude ...

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[Understanding the Basics of Pulse Width Modulation \(PWM\)](#)



Power delivered to devices can be changed by raising or lowering the voltage and current. But this method does not always produce intended results. Pulse width modulation (or ...

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Instrument Identification Tags , Control and Instrumentation

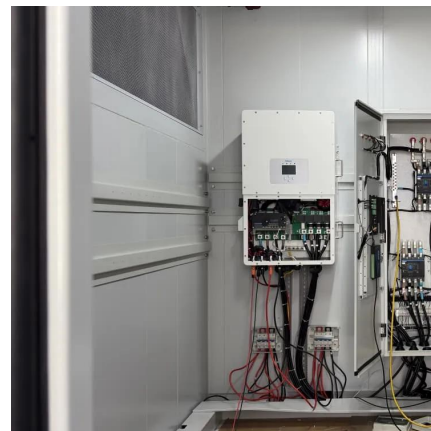
A " user-defined " letter represents a non-standard variable used multiple times in an instrumentation system. For example, an engineer designing an instrument system for ...

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Relay Circuits and Ladder Diagrams

The beauty of ladder-logic programming is that it translates the technician's understanding of traditional relay control circuits into a virtual form where contacts and coils ...

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