

Received: 22 May 2014 /Accepted: 29 August 2014 /Published: 30 September 2014 Abstract: Considering current shortage of the technique for obtaining and tracking setting values of ...

A technology of intelligent temperature control and coated sand, which is applied in the preparation of test samples, etc., can solve the problems of unstable mold fixing, easy shaking ...

Temperature rise is a salient characteristic of the braking device of heavy-duty vehicles (HDVs) during long downhill braking. The temperature-independent effec...

earch based on artificial intelligence control in the control system of cooling and heating energy station. The author first introduces artificial intelligence technology on the basis of heat-ing and ...

This paper presents a fuzzy self-tuning PID approach for intelligent temperature control system design, enhancing precision and adaptability in temperature regulation.

Accordingly, multimode intelligent thermal responses and temperature controls of LCE/LM composite foam were explored based on separate or combined functions such as ...

The findings suggest that PLC-based temperature control systems offer promising solutions for achieving reliable and effective temperature management in diverse industrial ...

Feature highlights: The Fnirsi DWS-200 is a 200W adjustable temperature soldering station with a 2.8-inch TFT HD screen, offering precise control between 100?-450? for professional ...

This is attributed to the large internal resistance in cold temperature [6] as an electrolyte-level result of the higher solution conductivity and lower ion mobility. 2) Reduced driving range and ...

LoRa Gateways function as crucial intermediaries in intelligent temperature control systems, bridging the gap between multiple LoRa devices and the internet. These gateways ...

ftware design of the system are analyzed in detail. In this article, a combination of the traditional PID control and the more popular fuzzy control is taken as the control program to .

This article provides a detailed design of an energy-saving intelligent temperature control system for precision manufacturing, including requirement analysis, system structure ...

Lateral line is a system of sense organs that can aid fishes to maneuver in a dark environment. Artificial lateral line (ALL) imitates the structure of lateral line in fishes and ...

The optimization design of the integrated pump station is introduced. Combined with the Internet of Things and intelligent sensor technology, intelligent perception control of the main body of ...

It is widely used in large pump stations, hydropower stations, substations, power distribution rooms, and large industrial electrical equipment, covering monitoring, control, diagnosis, and ...

Meanwhile, a single-valve temperature control loop based on FLC and a double-valve temperature control loop based on RLC is designed in the framework. Moreover, an ...

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