

Integration of Constant Temperature and Humidity System for Community Residential Units

This project designed an indoor climate control system. The control items include temperature and humidity, which solves the shortcomings of traditional temperature and humidity control equipment.

The novelty lies in the integration of radiators and HVAC systems within a temperature and humidity predictive model, offering a practical solution for real-world applications, and accurately ...

Model predictive control of residential air conditioning could reduce energy costs and greenhouse gas emissions while maintaining or improving occupants' thermal comfort. However, most approaches to ...

This study discusses how to design an AC (Air Conditioner) system that can work based on the temperature and humidity of the room that is regulated by a system that uses Arduino UNO as ...

The integration of the recommender system within the Shenzhen Qianhai Smart Community was evaluated based on real-time processing efficiency, scalability, and energy ...

Smart humidistats can link with other smart devices like thermostats (Nest, Ecobee), air purifiers, ventilation systems, leak detectors, or security hubs to create an integrated indoor ...

This study proposed a constant temperature and humidity control method for building AC systems on the ground of Fuzzy and Smith-PID to solve the automatic control of constant temperature and humidity in ...

This report, Advanced Humidity Control for Hot-Humid Climates, explores a cost-effective solution to improve humidity control and comfort for homes in hot-humid climates using conventional equipment ...

In recent years, the research of temperature and humidity control become more and more. Zhang Chengyi, Sun Jinpeng and others[1] carried out the numerical simulation of the thermodynamic ...

The objective of this study is to optimize existing proportional-integral-differential controllers to improve the time-delay instability problem that is common in temperature and humidity...

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