

DOI: 10.1016/j.applthermaleng.2024.122595 Corpus ID: 267464677; Model predictive control for the ice-storage air-conditioning system coupled with multi-objective optimization @article{Zhao2024ModelPC, title={Model predictive control for the ice-storage air-conditioning system coupled with multi-objective optimization}, author={Jing Zhao and Dehan ...

DOI: 10.1016/J.IJREFRIG.2012.06.003 Corpus ID: 119657544; Review of cold storage materials for air conditioning application @article{Li2012ReviewOC, title={Review of cold storage materials for air conditioning application}, author={Gang Li and Yunho Hwang and Reinhard Radermacher}, journal={International Journal of Refrigeration-revue Internationale Du Froid}, year={2012}, ...

In the face of the stochastic, fluctuating, and intermittent nature of the new energy output, which brings significant challenges to the safe and stable operation of the power system, it is proposed to use the ice-storage air-conditioning to participate in the microgrid optimal scheduling to improve wind and light dissipation. This paper constructs an optimal scheduling ...

For the purpose of grid peak load shifting, chilled water storage has been paid more and more attentions to integrated with air-conditioning system. In this paper, a new air conditioning system with directly chilled water storage is given. With peak-valley Price, cost for power consumption can be saved 15%-20% by coordinated operation between chilled water storage system and ...

Ice thermal energy storage (ITES) for air-conditioning application in full and partial load operating modes Accumulation d ... Results for our case study showed reductions of 11.83% and 10.23% in electrical power consumption which corresponded to reductions of \$3254 (11.42%), \$3159 (11.08%) annual operating cost in full and partial operating ...

Phase change materials are increasingly used because they can be used for cold energy storage in air conditioning systems to increase system efficiency and achieve energy savings. However, many potential adopters of phase change cold storage systems fail to consider environmental and economic factors, so feasibility assessments are difficult and significant ...

Due to energy constraints and people's increasing requirements for indoor thermal comfort, improving energy efficiency while ensuring thermal comfort has become the focus of research in the design and operation of HVAC systems. This study took office rooms with few people occupying them in Wuhan as the research object. The EnergyPlus-Fluent co ...

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