A Probabilistic Approach For Cooling Load Calculation

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A Probabilistic Approach For Cooling

cooling load calculations 2. Probabilistic Approach In order to attack this uncertainty problem in cooling load calculation, we must first categorize parameters those affect the cooling load. They can be divided into 2 types, i.e. uncontrollable and controllable parameters. Uncontrollable parameters, such as outside air temperature, affect the ...

A Probabilistic Approach for Cooling Load Calculation

A Probabilistic Approach For Cooling Probabilistic Approach In order to attack this uncertainty problem in cooling load calculation, we must first categorize parameters those affect the cooling load. They can be divided into 2 types, i.e. uncontrollable and controllable parameters. A Probabilistic Approach for Cooling Load Calculation (2020).

A Probabilistic Approach For Cooling Load Calculation

However, approaches for probabilistic optimal design and balancing of entire cooling systems are still absent. This article therefore presents a systematic approach of probabilistic optimal design and adaptive balancing for central cooling systems of buildings to minimize the impacts (energy waste and increased life-cycle cost) of oversizing in ...

A systematic and probabilistic approach for optimal design ...

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This article therefore presents a systematic approach of probabilistic optimal design and adaptive balancing for central cooling systems of buildings to minimize the impacts (energy waste and ...

A systematic and probabilistic approach for optimal design ...

Algorithmic cooling is an algorithmic method for transferring heat (or entropy) from some qubits to others or outside the system and into the environment, which results in a cooling effect. This method uses regular quantum operations on ensembles of qubits, and it can be shown that it can succeed beyond Shannon's bound on data compression. The phenomenon is a result of the connection between ...

Algorithmic cooling - Wikipedia

The probabilistic projections of climate change for the United Kingdom (UK Climate Impacts Programme) show a trend towards hotter and drier summers. This suggests an expected increase in cooling demand for buildings – a conflicting requirement to reducing building energy needs and related CO 2 emissions. Though passive design is used to ...

A probabilistic analysis of the future potential of ...

Cooling tower approach is the difference in temperature of the water entering the basin (cold) and the wet bulb temperature. For the purpose of tower design, a tower with a smaller approach (small delta between basin water temperature and wet bulb temperature) is considered superior.

Cooling Tower Factors: Temperature, Range & Approach ...
5. Conclusions A novel design and commissioning approach, consisting of probabilistic optimal design method and an on-site adaptive commissioning, is developed for building air-conditioning systems in this study. The probabilistic optimal design of an air-conditioning system consists of two parts.

Probabilistic optimal design and on-site adaptive ...
A probabilistic modeling approach was used to assess the prevalence and concentration of Bacillus cereus spores surviving heat treatment for a semiliquid chilled food product.

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Probabilistic geotechnical analysis of energy piles in ...
Summer comfort and building typologies in the real estate market: A probabilistic approach to the application of passive cooling techniques in apartments of Santiago de Chile November 2012

(PDF) Summer comfort and building typologies in the real ...
As part of this, directly providing independent and efficient humidity control is very important, versus the present energy-intensive approach of overcooling with an AC to the dew point to dehumidify the space. Beyond cooling technologies, there are two additional factors that play a key role in indoor thermal comfort.

We Need a New Approach to Cooling - Rocky Mountain Institute
A probabilistic approach has been used in order to take into account the variability of the factors impacting the result. This method is useful to evaluate both the effects of manufacturing practices (kitchen organization, food workers practices and equipment characteristics) and the influence of the process criterion (blast chiller piloting by ...

Probabilistic evaluation of Clostridium perfringens ...
A probabilistic approach to evaluate performance risks in EPC projects is proposed. ... The influential factors include building cooling loads, system control and operation systems, as well as chiller plant characteristics. The proposed approach involves: ...

Analysis of an air-cooled chiller replacement project ...
Making a prediction typically involves dealing with uncertainties. The application of uncertainty analysis to buildings and HVAC (heating, ventilation and air conditioning) systems, however, remains limited. Most existing studies concentrate on the parameter uncertainty and parametric variability in building simulations for the design stage, and rely on Monte Carlo experiments to quantify this ...

"A Bayesian Approach for Predicting Building Cooling and ...
The primary aim of the study presented in this paper is to propose a real-time temperature data transmission approach for intelligent cooling control of mass concrete. A mathematical description of a digital temperature control model is introduced in detail. Based on pipe mounted and electrically linked temperature sensors, together with postdata handling hardware and software, a stable, real ...

A Real-Time Temperature Data Transmission Approach for ...
A Bayesian Approach for Predicting Building Cooling and Heating Consumption and Applications in Fault Detection Abstract Making a prediction typically involves dealing with uncertainties.

A Bayesian Approach for Predicting Building Cooling and ...
The probabilistic approach used is substantiated due to differences that arise when input parameters vary at different levels, for example the engine-to-engine and blade-to-blade level.

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