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Thermal properties that affect building performance. The primary parameters that affect thermal performance of an opaque material are its density, ρ ($\text{kg}\cdot\text{m}^{-3}$); specific heat capacity, C_p , ($\text{J}\cdot\text{kg}^{-1}\cdot\text{K}^{-1}$); and thermal conductivity, λ ($\text{W}\cdot\text{m}^{-1}\cdot\text{K}^{-1}$). The three terms may be combined as thermal diffusivity, $\alpha = \lambda / (\rho\cdot C_p)$ $\text{m}^2\cdot\text{s}^{-1}$, which is an indicator of how rapidly heat is ...

Module 48: Simple thermal analysis for buildings - CIBSE ...

(See CIBSE Guide A Section 5.6.4 for an explanation of thermal response.) Figure 3: The Eton College boathouse incorporates four windtowers with integrated solar-powered fans. The natural ventilation brings a steady supply of outdoor air into the conference

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area, so maintaining good levels of IAQ (Source: Monodraught)

Module 113: Determining thermal comfort in ... - CIBSE Journal

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www.cibse.org. Guide A: Environmental Design . This is the 8. th. edition of CIBSE Guide A: Environmental Design. It is the premier UK technical reference source for designers and installers of heating, ventilating and air conditionings services. It enables engineers to design comfortable, environmentally sustainable, energy

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there may be a risk of air Page 4/16.
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Technical aspects are covered fully in for example various sections of the current CIBSE Guide [1], Book A. (ii) The part of the response that tends to recur day by day. This is of importance where the internal climate is much affected by solar gain on sunny days, or due to daily varying internal heat loads.

The thermal response of an enclosure to periodic ...

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In response to this increasing level of risk, CIBSE have developed an adaptive methodology to assess the predicted level of thermal comfort within a building. This assessment can be carried out at the detailed design stage by way of Dynamic Simulation Model. CIBSE TM52 sets three criteria for compliance.

CIBSE TM52 Thermal Comfort Analysis - Energytest

In control - thermal comfort and productivity - CIBSE Journal www.cibse.org. Guide A: Environmental Design . This is the 8. th. edition of CIBSE Guide A: Environmental Design. It is the premier UK technical reference source for designers and installers of heating, ventilating and air conditionings services.

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The design of the heating system is based on the steady state heat loss of the building, or the heat output required to maintain comfort conditions within the building with an accepted external design temperature. The procedures for calculating space heating loads are described in Chapter 25 ASHRAE Handbook of Fundamentals (1993), the CIBSE Guide Section A3 (1980), and Section A5 (1979) as ...

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