
May 27, 2022 The total solar energy transmittance (TSET, g - value) is a parameter of transparent system, which can significantly affect the heat demand for cooling of buildings in ?

Feb 13, 2025 These advancements have improved the accuracy and efficiency of solar shading simulations, enhancing energy performance and occupant comfort. As building designs evolve ?

Oct 1, 2017 Solar transmittance belongs to the optical properties that are more frequently required in the field of buildings as those specifically related to solar energy and thermal ?

Jan 1, 2023 A field study was first conducted to compare the effects of various shading configurations on an opaque facade. Subsequently, a simulation study was then conducted to ?

The secondary transmittance is the ratio between solar insolation and the part of the solar energy absorbed in the window/solar shade materials, which reaches the room through heat transport.

In response to the increased occurrence of overheating problems in glazed buildings in recent years, EMPA has focussed on the determination and modelling of the total solar energy ?

Jan 23, 2021 Thermal transmittance and the solar energy transmittance through the fenestration system. The thermal transmittance without the effect of solar radiation is calculated using the ?

Shading Coefficients The total shading coefficient is a measure of the total amount of heat passing through the glazing (known as the total solar heat transmittance) compared with that ?

Sep 10, 2013 Solar shading devices are an integral part of any building enclosure that impacts the building efficiency and indoor environment especially in the hot and humid climates like ?

Feb 1, 2008 In response to the increased occurrence of overheating problems in glazed buildings in recent years, EMPA has focussed on the determination and modelling of the total ?

4 days ago Building physics: Protection against overheating The calculation of the value for summer heat protection includes the total solar energy transmittance g_{tot} for the combination ?

Mar 1, 2020 In their work, Saelens et al. [19] developed a ray-tracing method for describing the total solar transmittance of shading systems. They combined this approach with a dynamic ?

Jul 19, 2015 Shading system plays a significant role in reducing building energy demand. To analyse the performance of a shading system, traditional method is either conducting ?

Aug 1, 2018 Abstract The main problem of previous methods for the calculation of total transmission of solar radiation through shading louvers is that they can only deal with flat slats ?

Dec 1, 2023 This method can be used to quickly quantify the energy-saving potential of external Venetian blind shading for nearly zero energy buildings in different climate zones, and can be ?

Jul 5, 2022 In addition to solar gain factors, Table 5.A11.1 also gives the shortwave and longwave shading coefficients (S_c). These correspond to the direct and indirect transmission to ?

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