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Principles of Heating, Ventilation, and Air ... - wiley.com

Energy conservation and natural ventilation should be the prime concern of any building design as the buildings are often planned as sealed and well insulated, with low heat gain or loss, the extreme use of HVAC systems to improve air quality and to dilute the VOCs emitted by the building materials and furniture 32. In buildings, there are two ...

Review of passive heating/cooling systems of buildings ...

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Energy Audits: A Workbook for Energy Management in ... - Wiley

LONDON — London's police are investigating after a stream of anti-Semitic comments were posted on British grime artist Wiley's social media accounts. Twitter banned the rapper for seven days ...

Police investigate anti-Semitic tweets by grime artist Wiley

Heat gain is the term given to a temperature rise within a space due to heat from the sun (solar radiation), heat from surfaces (long wave infrared radiation), heat originating from other sources within the space (such as heating appliances, ovens, people, mechanical systems, lights and computers) and so on.

Heat gain - Designing Buildings Wiki

Solar shades to block excessive sunlight or heat gains: this article discusses the function of sun shades to block direct sun for controlling heat gain in passive solar buildings. We also provide a MASTER INDEX to this topic, or you can try the page top or bottom SEARCH BOX as a quick way to find information you need.

Solar Shades for Controlling Sunlight, Heat Gain, Heat ...

An instantaneous heat gain such as solar radiation is first absorbed by the building structure and later transferred to the indoor air by convection, when it becomes the cooling load. For example, the peak cooling load in a building typically occurs in the afternoon or early evening, which is much later than the time when the actual heat gain has a peak value, creating a thermal lag.

15 Indoor Environmental Control - onlineibrary.wiley.com

Put another way, the greater the degree variation from true south, will decrease the amount of the the building's solar gain. As a result, larger amounts of supplementary energy may be needed to heat the building in the winter. As the building's glass (glazing) faces more to the southwest, more energy may be needed for summer cooling.

Orientation / South Facing Windows | Green Passive Solar ...

For large buildings with high internal heat gains, passive solar heat gain is a liability, because it increases cooling costs more than the amount saved in space heating. Design for natural ventilation in summer with operable windows designed for cross ventilation. Ceiling fans or heat recovery ventilators offer additional air movement.

Passive Solar Heating | WBDG - Whole Building Design Guide

In building physics, internal heat gains (IHG) or internal heat loads refer to heat emitted by all physical phenomena, activities and processes that release sensible and latent heat inside a...

(PDF) The Importance of Internal Heat Gains for Building ...

The aim of using passive systems is reduction of energy demand for room heating and cooling. Each building structure exchanges heat with its surrounding (heat losses in the cold period, heat gains when the ambient air temperature and solar irradiation are high). Intensity of this heat transfer depends (among other factors) on structural ...

Energy-Efficient Building - an overview | ScienceDirect Topics

As stated in the previous section, solar heat gain can benefit buildings in colder climates during winter months. In warmer climates, on the other hand, interior spaces need to be shaded from direct sunlight much of the year. The optimal orientation of the building, from the perspective of solar heat gain, balances desirable solar heat gain during

High-Performance Building Envelopes: Design Methods for ...

In the latter case, heat balance is not achieved indicating the person would heat up. Assuming a maximal acceptable heat gain of 264 kJ of the body (a mean body temperature increase of about 1°C @ 75 kg) one can calculate the corresponding allowable exposure time (AET or often also referred as DLE: duration limited exposure) of:

Thermal Indices and Thermophysiological Modeling for Heat ...

An experimentally validated numerical modeling integrating both heat transfer model and optical model is developed to characterize the sophisticated heat transfer and solar radiation transmission mechanisms. Sensitivity analysis is presented with quantifiable contribution ratio of each parameter to the total heat gain.

Numerical Study on the Thermal and ... - Wiley Online Library

The latent heat of the verification (100, 200 MJ/m³) indicates a close value to the lower and upper limit of organic PCMs, considering that the density of organic PCMs is slightly less than that of water. The thesis 19 also states that the heat conductivities of organic and inorganic PCMs are approximately 0.2 and 0.5 W/(m·K), respectively ...

Replacement model of phase change building materials for ...

Chapter 3 Thermal Dynamics of Buildings 57. Heat Gain and Loss 58. Thermal Mass Dynamics 69. Moisture Problems 72. Chapter 4 Load Calculations 79. Heating and Cooling Loads 80. Selecting Design Temperature and Humidity Conditions 85. Solar Gain Through Fenestration 87. Heat Transmission Through the Building Envelope 95. Internal Loads 100 ...

The Building Environment: Active and Passive ... - Wiley

Based on the International Building Code (IBC), this updated and expanded edition of the industry standard covers today's diverse materials, regulations and requirements, specification formats, and more. Just as detailed as the specifications it explains, this comprehensive Second Edition provides all the critical information necessary for completing contract documents, all organized in a ...

Specifying Interiors: A Guide to Construction ... - wiley.com

Passive cooling is a building design approach that focuses on heat gain control and heat dissipation in a building in order to improve the indoor thermal comfort with low or no energy consumption. This approach works either by preventing heat from entering the interior (heat gain prevention) or by removing heat from the building (natural cooling). ...