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Indoor Thermal Comfort Perception A

Perceptions and Expectations of Thermal Comfort in the ...

Perceptions and Expectations of Thermal Comfort in the Philippines M M Andamon, T J Williamson*, V I Soebarto School of Architecture, Landscape Architecture and Urban Design

Contribution of Portuguese Vernacular Building Strategies ...

Thus, thermal comfort standards for air-conditioned buildings are not suitable to be used in the design of this type of building Thus, the most adequate model to assess and predict thermal comfort conditions in vernacular buildings is the adaptive model of thermal comfort, part of the standards ASHRAE Standard 55 [20] and EN 15251 [21]

CASE STUDY OF OCCUPANT S PERCEPTION OF INDOOR ...

the overall thermal sensation of an occupant, which is dependent on the mean skin temperature, its time change and body core temperature The

latest models of thermal comfort include the Berkeley model (Zhang, 2003) which describes the psychological aspects of the thermal comfort perception METHODS

Indoor thermal comfort in residential building stock A ...

This study aims to explore the indoor thermal comfort in RCC houses, comfort perception and satisfaction of the residents living in such houses This report is part of a PhD project which aims to improve the indoor thermal comfort of free-running RCC houses in

Perceived air quality, thermal comfort, and SBS symptoms ...

PERCEIVED AIR QUALITY, THERMAL COMFORT, AND SBS SYMPTOMS AT LOW AIR TEMPERATURE AND INCREASED RADIANT TEMPERATURE

J Toftum*, G Reimann, P Foldbjerg, G Clausen and PO Fanger International Centre for Indoor Environment and ...

THERMAL COMFORT - Humanitarian Library

thermal “comfort”), and maximization of acclimatization Thus, while the first step of thermal design must be to establish what is the range of thermal conditions commensurate with comfort, we must go beyond this basic concern and create conditions that also permit conditions to become stimulating, without causing ill effects to the

Perceived Indoor Environment and Occupants’ Comfort in ...

indoor air quality, noise, lighting, and thermal comfort Zalejska-Jonsson and Wilhelmsson’s [12] study revealed that comfort perception presents a variation through important personal characteristics such as age, gender, and occupants’ lifestyle While a better understanding of occupants’ needs is important

Research on the Origins of Thermal Comfort

General thermal comfort is defined by certain thermal conditions that, on average, affect the environment in order to ensure comfort from its broader view On the other hand, local thermal comfort focuses on the study of areas subject to special conditions like draft, asymmetric solar radiation and local perception of air quality In these

Comfort is more than just thermal comfort

are based on Fanger’s Model of thermal comfort (figure 1) which takes into account only physiological reactions to physical aspects of the indoor environment Auliciems introduced later his Psycho-physiological model of thermal perception (figure 2), which is based on Fanger’s model but takes also into account thermal expectations,

Thermal Comfort Evaluation of HDB flats

temperature and humidity of indoor air is almost impossible to be modified, it is believed that only higher wind speed can create higher thermal comfort satisfaction The main objective is to highlight the variations in the comfort perception of the occupants using the ASHRAE and the

Thermal Discomfort and Health: Protecting the Susceptible ...

indoor temperatures within the thermal comfort range) This suggests that this widely used 10% definition of fuel poverty might not identify those who are not spending too much of their available income on energy but who have adopted restriction behaviour by using less energy than needed for heating (air and water) that could put their health

Thermal Comfort in Outdoor Environment

vote) for indoor climates with the aim to provide an in-dex for ratings of thermal (dis-)comfort at various states of activity and clothing insulation PMV is also used as ISO 7730 (ISO, 1994) In Table 1, the relation of PMV value with thermal perception and physiological stress level is shown for

low activity and normal indoor cloth-ing To

Children thermal comfort in primary schools in Ho Chi Minh ...

Children thermal comfort in primary schools in Ho Chi Minh City in Vietnam Thi Ho Vi Le^{1, 2}, Mark Gillott¹ and Lucelia Rodrigues¹ ¹ Faculty of Engineering, University of Nottingham, Nottingham, United Kingdom ² Department of Architecture, Ho Chi Minh City University of Architecture, Ho Chi Minh City, Vietnam Abstract: Indoor environmental quality significantly impacts on students

Predicting Thermal Comfort

Predicting Thermal Comfort Thermal comfort is largely a state of mind, separate from equations for heat and mass transfer and energy balances However, the perception of comfort is expected to be influenced by the variables that affect the heat and mass transfer in ...