

ABSTRACT NO.: 550

TITLE: Energy and Buildings

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The purpose of this project is to analyze thermal comfort. Thermal comfort is defined as the state of mind that expresses satisfaction with the thermal environment. Thermal comfort is very important since it describes a person's psychological state of mind and so can affect our overall morale. In this research, the equations that are used to determine thermal comfort in accordance with the ASHRAE Thermal Sensation Scale were investigated. These equations that are used to determine thermal comfort are the energy balance equation also known as Fanger's comfort equation and the PMV (Predicted Mean Vote) equation. The equations mentioned above were fully investigated whereby the variables in the equations were examined and defined. Also there exist a connection between the two equations and this connection was observed.