

タイトル

CONSIDERATION OF VERSATILE CALCULATION METHOD CONCERNING HEAT PERFORMANCE OF
A CEILING SLIT PANEL UNIT AND SPACE ENVIRONMENT

Study on heat performance of a ceiling slit panel unit for radiant cooling and heating (Part 2)

概要

This study proposed the versatile calculation method concerning the heat performance of a ceiling radiant panel and indoor thermal environment affected by radiant cooling and heating system.

This method replaces the ceiling radiant panel with pipe to which the heat performance is equal, and calculates the radiation heat transfer and the convection heat transfer.

The calculated values of the heat quantity are substituted for the equations of zone heat balance in consideration of the transfer of heat between living space and ceiling space by the slit. And the equations are solved by the explicit method.