

Thanachai Jongsomchai 2010: Program Aided Designed for Smoke Control System in Building. Master of Engineering (Fire Protection Engineering), Major Field: Fire Protection Engineering, Interdisciplinary Graduate Program. Thesis Advisor: Assistant Professor Phichai Kritmaitree, Ph.D. 156 pages.

The Thesis of Aided Designed for Smoke Control System in Building Program has been established accordance to the pressurized fan in the building is important for smoke control system, it controls the smoke level and can safe the people during fire evacuation.

Therefore, the key of program designing is focused on the accuracy of pressurized fan for different building by using the theoretical calculation. Because the correction at the first designing supports human life safety in the building.

This thesis has been designed for pressurized fan calculation by applying the visual basic likely easy user format. The validation has been passed by simulating the real condition in the example building and compare calculation result with existing fans.

The result presents the calculation of pressurized fans in the simulated building 16 floors is suitable by theoretical checking and program itself.

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Thesis Advisor's signature