

**EVALUATION OF INDOOR ENVIRONMENT IN APARTMENT HOUSE BASED ON RESIDENTS' RESPONSES.** Yoon, C. S.\* & Rhee, J. S. Dept. of Housing & Interior Design, Yonsei Univ., Seoul 120-749, Korea.

Considerable concern about indoor environmental comfort is on the increase in our society. This thesis is dealt with thermal environment, indoor air environment, sound environment and light environment in apartment house. The purpose of this study is to analyze degrees of 'the cognition', 'the importance', and 'the satisfaction' on indoor environmental factors. Secondly it proposes a model for evaluating comfort of indoor environment based on residents' responses. The questionnaire survey was given to the residents at apartment complex located in Ilsan, Kyunggi-Do and the subject of survey was housewives. The following are the results obtained in this thesis. 1)The cognition on dust, loudness and injury level on noise were negative. It was found that air freshness, odorlessness, adequate indoor light and noiselessness were important relatively. It showed that the level of indoor light, air freshness and indoor air temperature were comparatively satisfied. 2)The results of analysis in relations to residents' responses on indoor environmental evaluating factors showed that the cognition had an effect on the importance and the satisfaction, and the importance had an effect on the satisfaction. 3)The results of path analysis on comfort revealed that direct effects to comfort were the satisfaction on thermal environment, indoor air environment and sound environment, and the cognition on indoor air environment. Indirect effects were the cognition on thermal environment, indoor air environment and sound environment. 4)An evaluation formula of comfort by the factors of direct effects was given. The satisfaction on indoor air environment was the biggest variable which decided the comfort. It is meaningful to suggest the model evaluating comfort by residents' responses. This formula is recommended to evaluate comfort for P.O.E(post occupancy evaluation) by residents.