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A study on the comprehensive indicator of indoor environment assessment for occupantsâ€™ health in Taiwan

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Abstract

This paper presents the methodology of developing the comprehensive indicator for indoor-environment assessment. It intends to provide the occupants with the measures of indoor-environment quality. These indicators were drawn up by literature review based on the practicability, economic and feasible aspects. The categories we considered included acoustics, vibrations, illumination, thermal comfort, indoor air quality, water quality, greens and electromagnetic fields. The purpose is to derive the essential indicators through expertise consultation for quantitative assessment on existing buildings. The analytic hierarchy process (AHP) method was used to carry out the weighting among the categories and these indicators in the same category respectively. The consistency ratio was also calculated to filter out the null questionnaire. Finally, a comprehensive index, indoor environment index ($IEI_{(AHP)}$), composed of the filtered

indicators, is proposed to assess the indoor-environment in the built buildings.

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Keywords

AHP; Comprehensive indicator; Indoor-environment

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