

경량 및 중량 충격원에 의한 표준 시험동의 진동전달 특성 분석
Analysis on the Vibration Transmission Characteristics
of the Standard Test Building by Using Standard Impact Source

진필화†·김홍식*·김도형**(호남대)

Pil-Hwa Jin, Heung-Sik Kim and Do-Heong Kim

Key Words : Floor Impact Noise(바닥충격음), Standard Test Building(표준시험동), Standard Heavy and Light Weighted Impact Source(표준 경량·중량 충격원), Vibration Transmission characteristic(진동전달특성)

Abstract : The purpose of this study is to provide a fundamental data for efficient and economical reduction method and prediction method of floor impact noise. In order to get the useful results, the measurement on the vibration transmission characteristics of standard test building with four rooms by using heavy and light-weighted impact source were carried out. In this measurement various conditions such as the change of test structure construction, the pick-up sensor location, the excitation position, and the resilient material types were applied to get the vibration characteristics transmitted from excitation room to adjacent rooms.