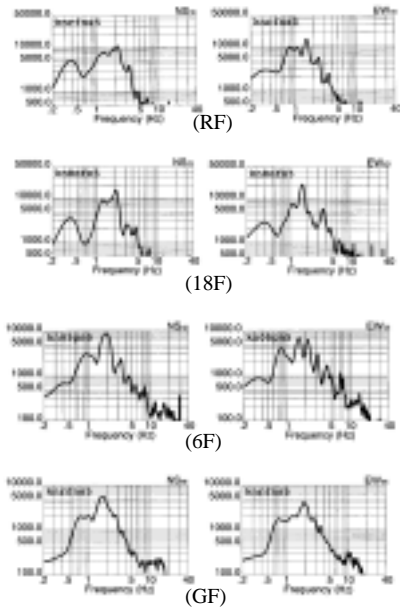


Preliminary Report of Microtremor Measurement on Knoll Building

Date of measurement : July 23rd, 2001

- Fourier Spectrum of North Point -



- Fourier Spectrum of South Point -

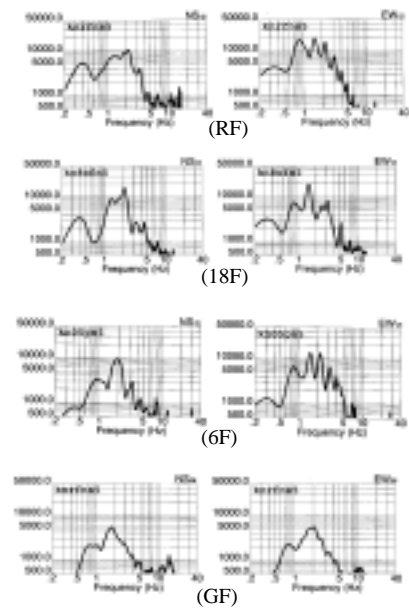


Fig.1 External appearance of measured building

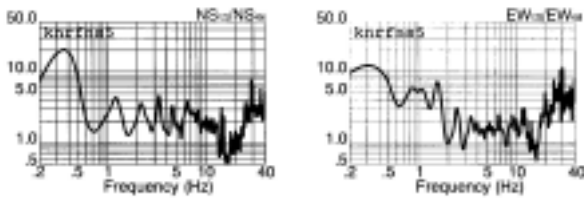


Fig.2 Estimated quasi-transfer spectrum of north point on the roof

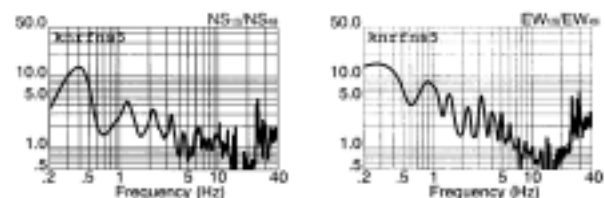


Fig.3 Estimated quasi-transfer spectrum of south point on the roof

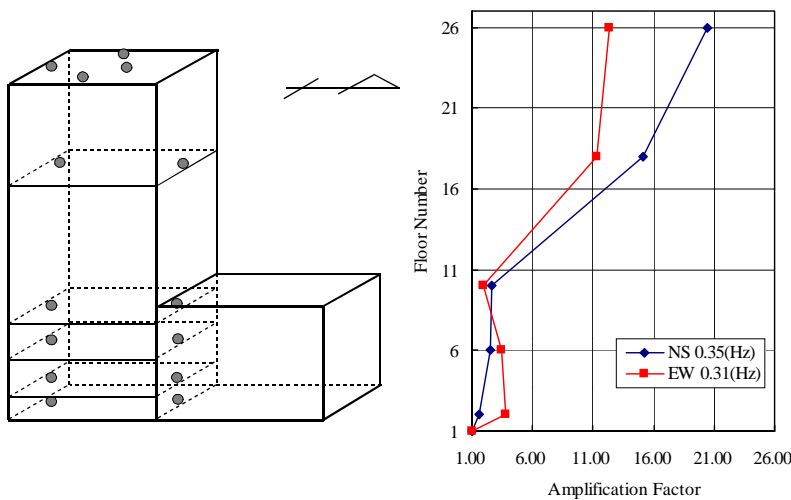


Fig.4 Measurement points on each floor and vibration mode

Predominant Frequencies
Statistic value

$$F = (10 \sim 16)/N$$

$$= 0.40 \sim 0.64(\text{Hz})$$

Measurement value

NS component $F=0.35(\text{Hz})$
EW component $F=0.31(\text{Hz})$

F: Frequency (Hz)
N: Number of stories (Floor)