Noise from indoor electrical distribution boxes in high-rise buildings

Although the standard for noise exposure is satisfactory in the work environment, some parts of the transformer noise at tonal frequencies around 400 Hz disturb the psyche during the activities of office ...

The propagation rule of the structure-borne sound caused by the indoor distribution transformer in a building has been analyzed and the prevention and control method is put forward.

This document discusses the electrical system design requirements for high-rise buildings. It covers the typical power needs of high-rise buildings including general lighting, HVAC, elevators, pumps, ...

This Building Technology Resource explains basic building acoustics, how to prevent external noise from entering buildings, and how to control sound transmission within and between rooms.

Use panelboards for service entrance equipment and electrical distribution in BEQ/BOQ facilities. Load center style panelboards, with plug-in breakers, can be used in housing units and BEQ/BOQ rooms.

The technology used to manufacture such equipment typically results in relatively high levels of noise emission. Most of the existing substations were initially built far from residential areas ...

Conventional noise detection and noise reduction methods can no longer meet people"s requirements for sound comfort. The coupling analysis method of vibration and noise based on EMD ...

In the distribution room, audible noise is generated due to the vibration of the power equipment. It will inevitably have a direct impact on the people nearby and the surrounding ...

A sound source model simulating the noise generated by power equipment in the distribution room is established, and the noise distribution within the building is calculated.

Excessive noise emission problems of an urban 110kV indoor substation are discussed and tackled comprehensively in this paper.

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