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Abstract
This thesis is intended to analyze the effects of reference sensing with interference caused by the electrical circuits or the physical response of sensors in practical applications for feedforward active noise control (ANC) systems. There will be three types of error sensing in the reference sensor is introduced. First, another interfering frequency, which is not the noise frequency, is picked up by the reference sensor. Second, the level of the noise signal exceeds the limitative level of the reference sensors. Furthermore, since the reference sensor may be close to the source of noise induced by vibration, the signal sensed by the reference sensor may be disturbed by some vibration frequency.
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