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Abstract
The technology of active noise cancellation is already been proved useful for low frequency noise, and more efficient than traditional passive noise cancellation. Presently, we know that the technology apply on airplane or car engine in a seal zone. Now we propose a new deck which could level down the noise real time in the open zone.
The purpose of this thesis is to level down the noise. Compare with other research, this thesis of exhauster active noise cancellation is in an open area. Most noise cancellation method are used in a sealed zone or a channel. In the open area, noise cancellation will be more difficult. We use Texas Instrument’s TMS320C3x DSP (Digital Signal Processor) to develop an active noise control (ANC) platform to reduce the operating noise of exhausters. Particularly, we use Matlab to simulate the noise on PC. We are not only demonstrating hardware and software frameworks of ANC platform cancellation, but also using DSP Integrated development tools with adaptive signal processing algorithms to perform real-time processing on ANC platform in this thesis.
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