

## **127. CONVERGENCE ANALYSIS OF NARROWBAND ACTIVE NOISE CONTROL USING FXLMS ALGORITHM**

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In this paper, a typical narrowband active noise control system is proposed using a variable step-size filtered-x LMS (VSS-FXLMS) algorithm. This algorithm converges much faster than the conventional FXLMS algorithm and it is quite same as that of the filtered-x recursive least square (FXRLS) algorithm. Mean square error and discrete fourier coefficients are obtained from the simulation results for VSS-FXLMS algorithm which is better as compared with the FXLMS and the FXRLS algorithms.

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