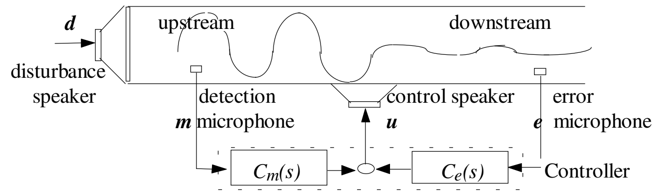
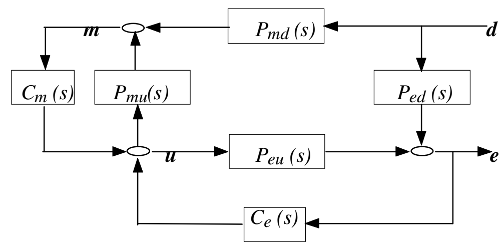


(a)



(b)

Figure 1. (a) Schematic and (b) Block diagram for
the proposed active noise control system in a duct

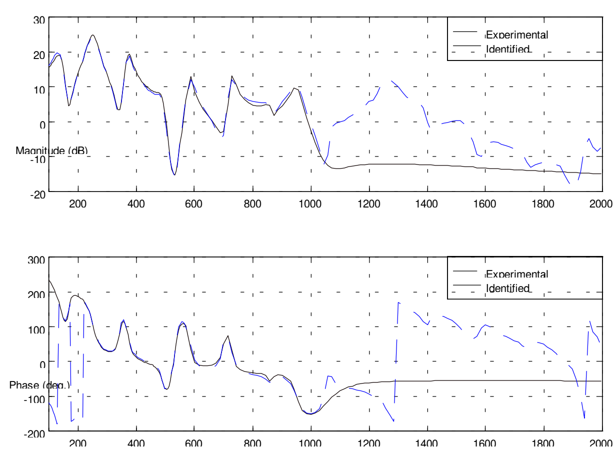
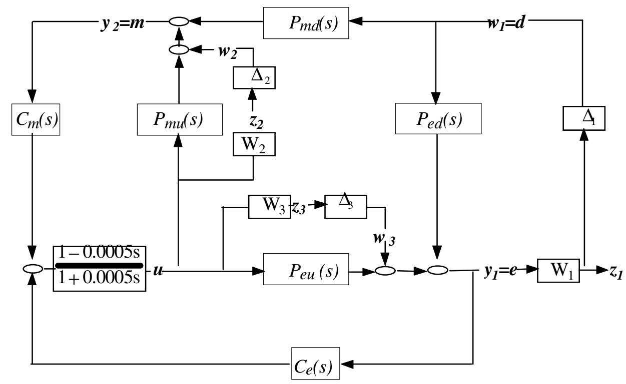
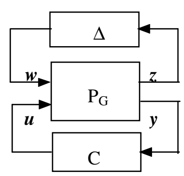


Figure 2. Frequency response for
the experimental and identified transfer function $P_{eu}(s)$



(a)



(b)

Figure 3. (a) Block diagram (b) LFT for the H_∞ problem
(P_G is the generalized plant)

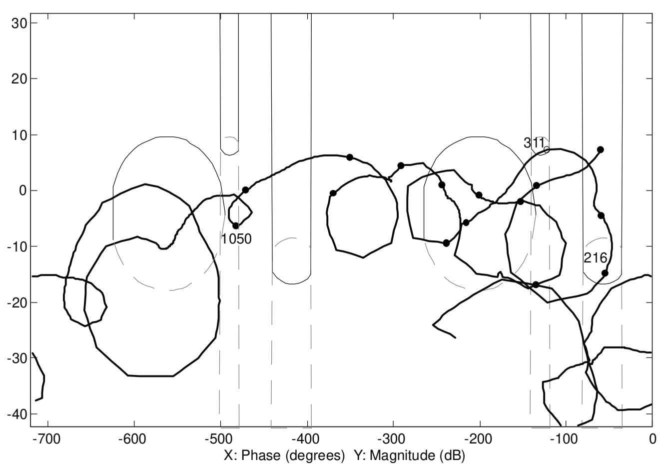


Figure 4. QFT Loopshaping environment and
the performance bounds for feedforward loop design

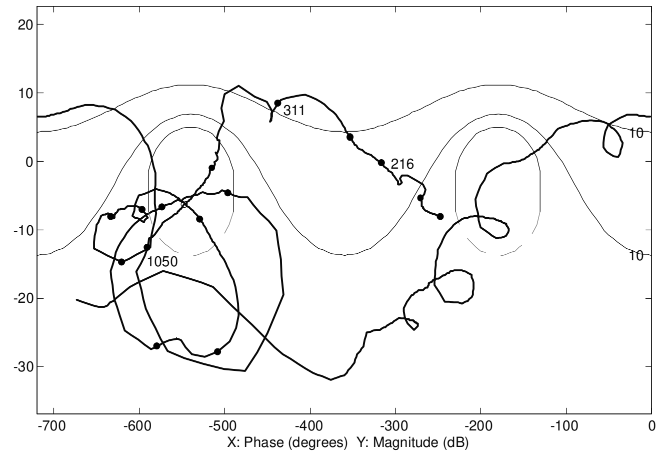


Figure 5. QFT Loopshaping environment and
the performance bounds for feedback loop design

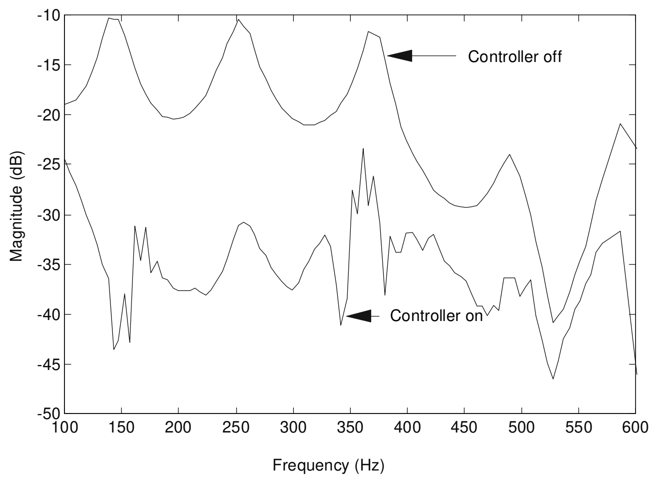


Figure 6. Simulated performance - Magnitude of open-loop v/s the closed-loop
frequency response with experimental data and the H_∞/QFT synthesized controller

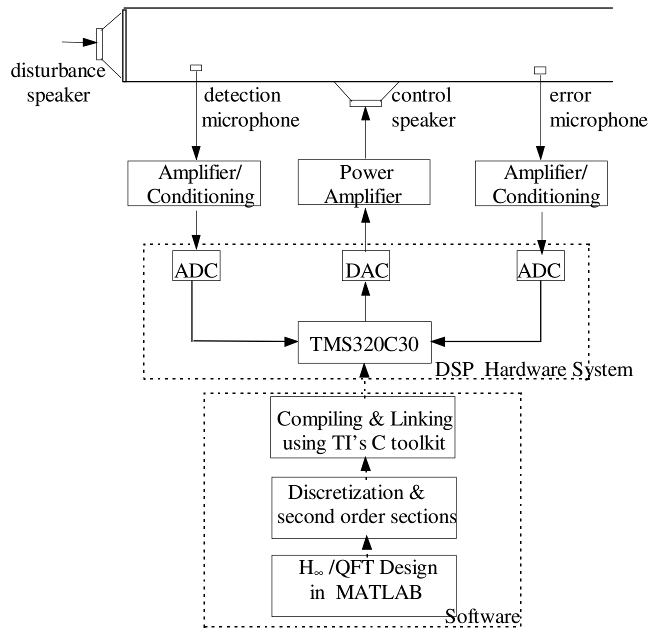


Figure 7. The hardware/software configuration for ANC system in duct

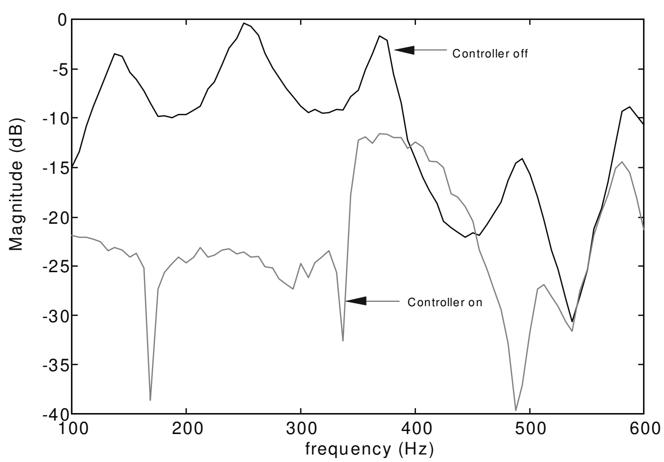


Figure 8. Experimental performance - Magnitude of open-loop v/s the closed-loop frequency response for the implemented real-time controller