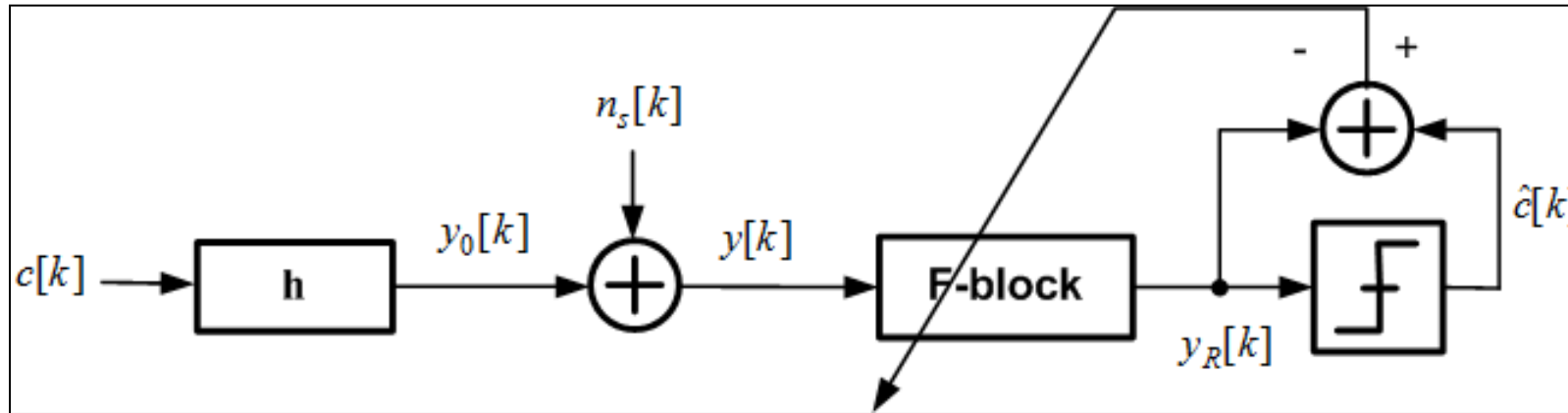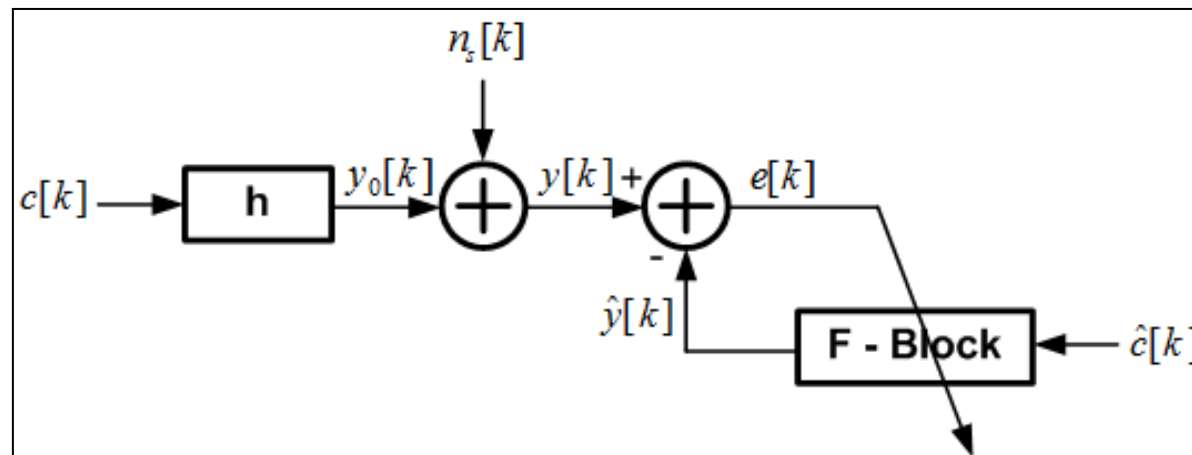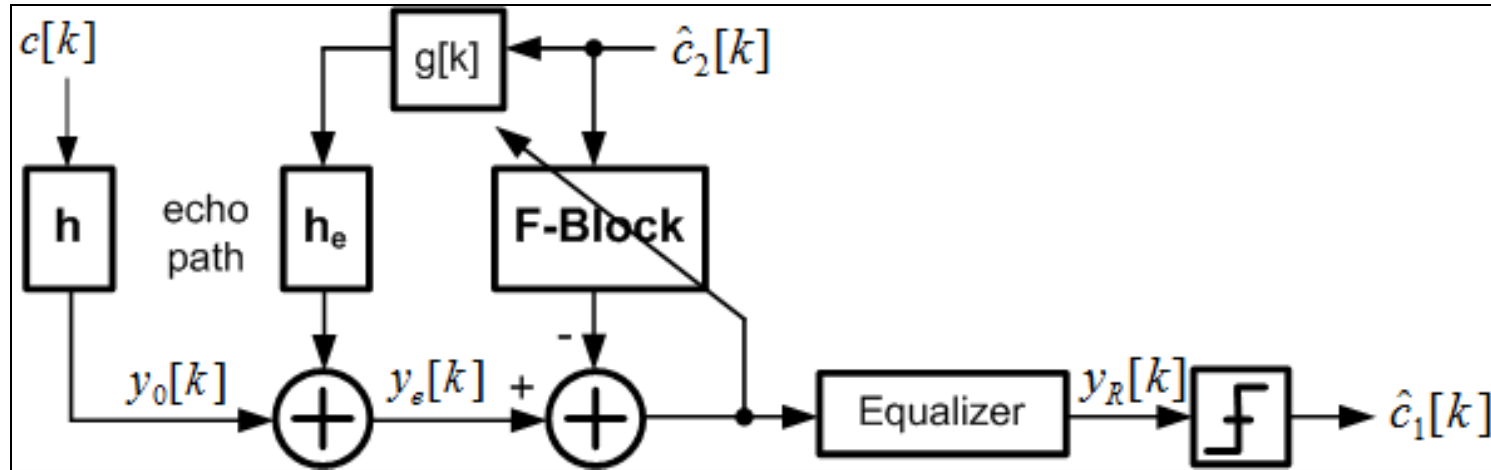# Classroom Discussion

- for each of the following, determine the **input** signal, **desired** signal, **predicted** signal, and the **prediction error** the LMS learner.
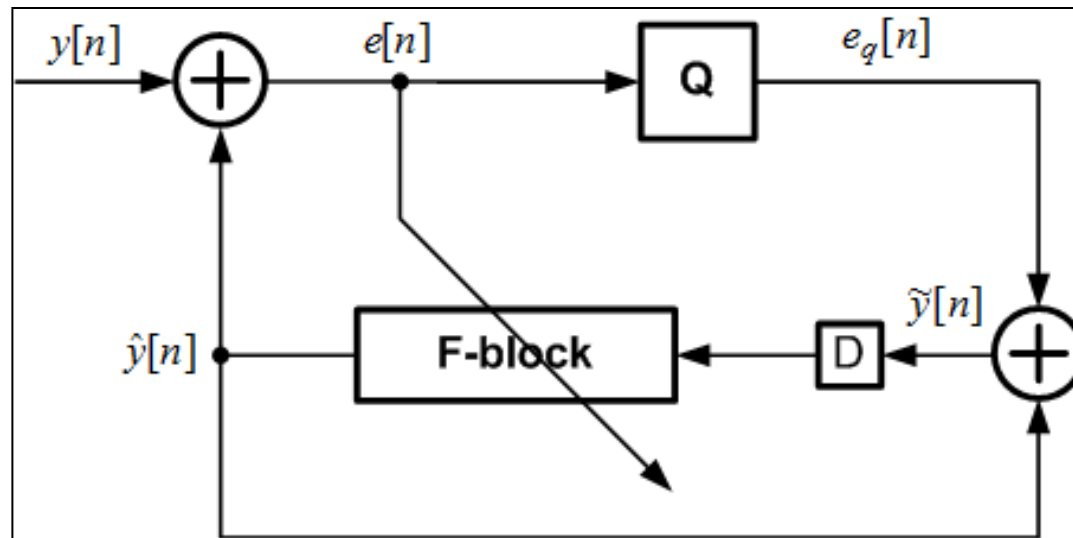

channel equalizer

channel estimator

near-end cross-talk canceller

**adaptive differential
pulse-code modulation (ADPCM)
coder**

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