Cross terms cancel out in the cross expression for the mean Gy.

\[
\left( f^{[1]} - f^{[2]} \right)^2 (a + b)^2 + \left( f^{[1]} - f^{[2]} \right)^2 (a - b)^2
\]

\[
\left( f^{[1]} - f^{[2]} \right)^2 (a + b)^2 + \left( f^{[1]} - f^{[2]} \right)^2 (a - b)^2
\]
Data transmitted from channel (may adapt) to adjust the CG.

Adaptation is more difficult - back to receive a small signal

Need to scale down - adaptation is amplified noise - Rx equalizer.

Tx equalizer

Analog
digital
A/D Converter to use digital algorithms.

Sample & Hold.

Transmission Lines / Filters.

Analog data can be delayed using pull-ups.

Digital data can be delayed.

Rx equalizer: Analog inputs
Tx equalizer: Digital inputs

\[ a \]
Easier to implement the equalizer in the transmitter.