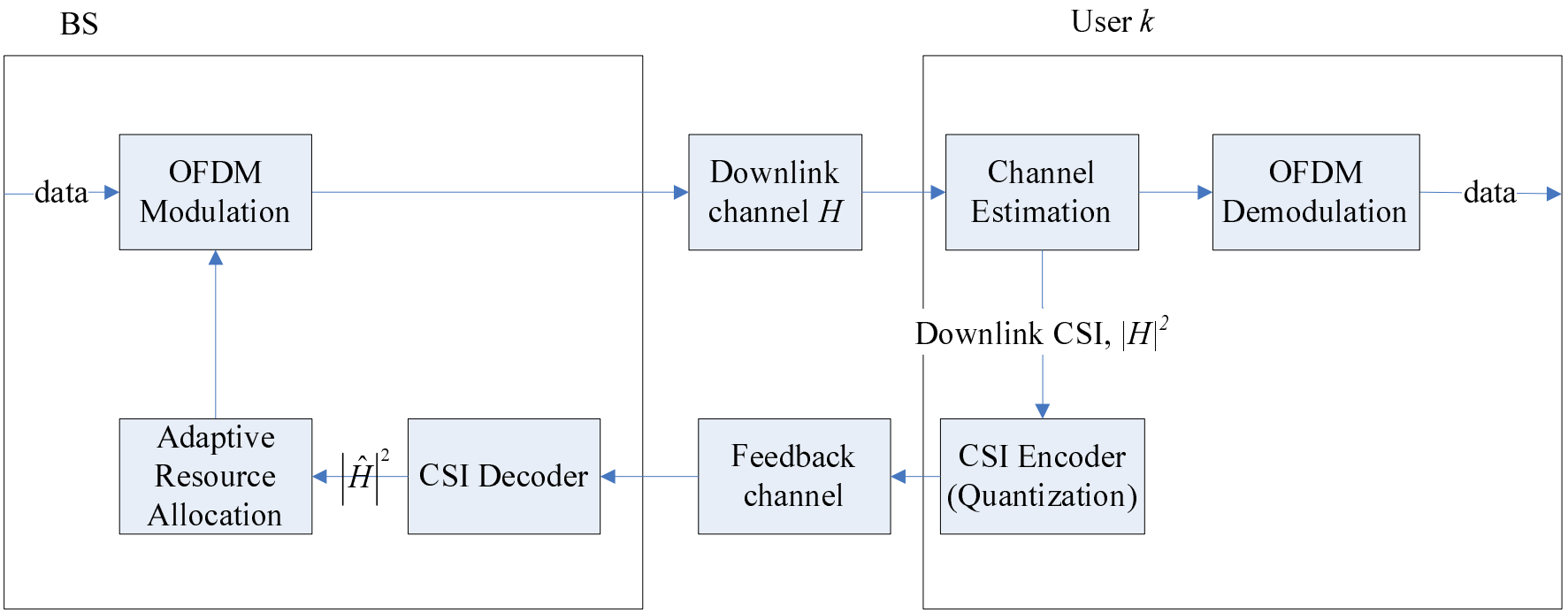
BS
User k
data
OFDM Modulation
Downlink channel H
Channel Estimation
OFDM Demodulation
data
Downlink CSI, $|H|^2$
Adaptive Resource Allocation
$|\hat{H}|^2$
CSI Decoder
Feedback channel
CSI Encoder (Quantization)