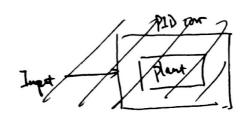
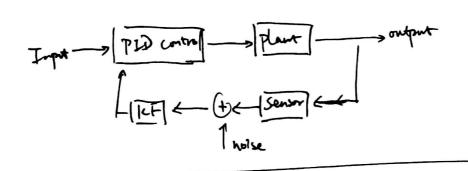
Kalman Filear in Control Applicating

KF filer sever signeds observation by estimating unledgy stage and today combining that with incoming measurement to desire most likely estimate.

In control, P.g. a PID controller aims to minimize the difference between an input/set-point and the output. The "output" is sensed via an dossever of sensor. The PID controller is good at this to under external distributions, but becomes ineffective under a lot of sensor noise. Therefore, I a KF can be used to file the noisy sensor readys, confirmenting the controller.





Kalum filter:

Devived from: 1) Keeping Blean estimate = mean time starte

2) Minimize error variance.

Ectua construction: By Measurement and Process noise are Gaussian with new mean=0, and no correlation.