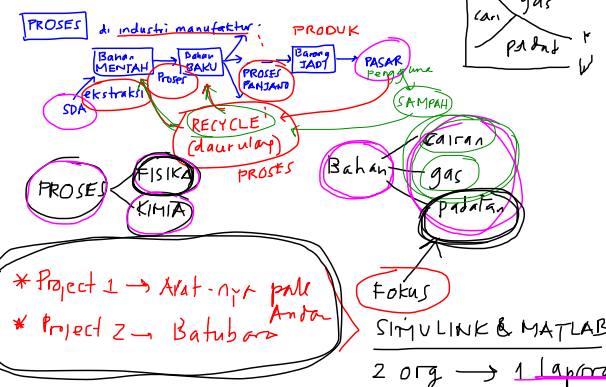
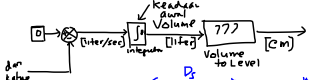
Teknologi Kendali Proses
(Process Control Technology)

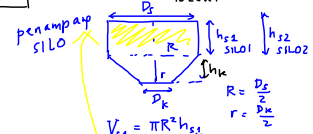


* Project 1 → Arat-nya pake Antar
* Project 2 → Batubara

SIMULINK & MATLAB

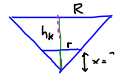
2 org → 1 laporan.
Bab I Project 1
Bab II Project 2





$V_{s1} = \pi R^2 h_{s1}$

V_k = Volume kerucut besar − Volume kerucut kecil



$\frac{x}{h_k+x} = \frac{r}{R}$

$Rx = r(h_k+x)$

$(R-r)x = h_k r$

$x = \frac{h_k r}{(R-r)}$

Volume kerucut besar = $\frac{1}{3}(h_k+x).\pi R^2$

Volume kerucut kecil = $\frac{1}{3} x . \pi r^2$

$V_k = \frac{1}{3}(h_k+x)\pi R^2 - \frac{1}{3} x \pi r^2$

$V_{in} > V_k$!

$h = h_k + y$

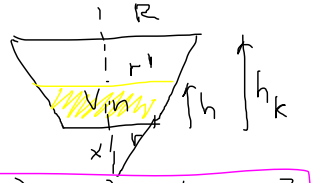
$V_s = y \cdot \pi \cdot R^2 = V_{in} - V_k$

$y = \frac{V_{in} - V_k}{\pi R^2}$

$h = h_k + \frac{V_{in} - V_k}{\pi R^2}$

$V_{in} \leq V_k$

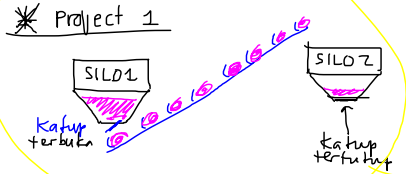
$\frac{h+x}{h_k+x} = \frac{r'}{R}$



$V_{in} = \frac{1}{3}(h+x)\pi r'^2 - \frac{1}{3} x \pi r^2$ → h = ... ???

* P.K : 1) Ukur R, r, h_k, h_{s1} dan h_{s2}
2) Selesaikan persamaan h = ... untuk $V_{in} \leq V_k$

* Project 1



Material di SILO1 dipindahkan ke SILO2 melalui Konveyor

* project 2