

CONVEYOR

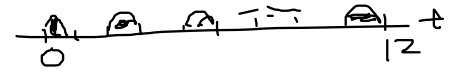
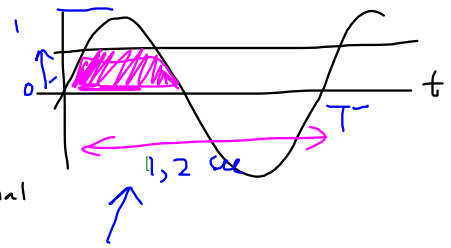
Silo 1

Silo 2

Motor dan roda gigi

Kecepatan motor 250 RPM
Roda gigi 1.5
Cawan akan menumpahkan material 50 kali per menit
 $\frac{1}{5} \times 250$

dengan asumsi 1x putaran roda gigi, 1 cawan menumpahkan material
Di atas conveyor 10 cawan, maka waktu untuk material bergerak dari silo 1 ke silo 2 adalah $\pm 10 \times \frac{60 \text{ sec}}{50} = 12 \text{ sec}$



$$\begin{aligned} T &= 1.2 \text{ sec} \\ f &= \frac{1}{T} = \frac{1}{1.2} \text{ Hz} \\ \omega &= 2\pi f \end{aligned} \quad \left. \vphantom{\begin{aligned} T &= 1.2 \text{ sec} \\ f &= \frac{1}{T} = \frac{1}{1.2} \text{ Hz} \\ \omega &= 2\pi f \end{aligned}} \right\} \sin \omega t$$

* Project 1

GUNT Level Control
Model SIMULINK

