Control Automático
EM-720

Tarea #8

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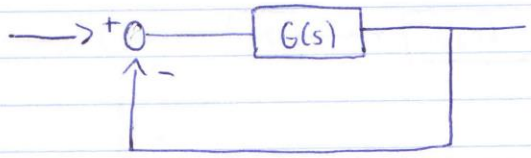
(6pm - 9pm)

Segundo Cuatrimestre 2018

Tarea #8



$$G(s) = \frac{1}{(s+4)(s+6)}$$

- Valor final ante escalón
- Incremento de Valor final de 20%

$$E(s) = \frac{1}{1 + G(s)}$$

$$e_{ss} = \lim_{s \to 0} \frac{1}{1 + G(s)} \cdot \frac{1}{s}$$

$$= \lim_{s \to 0} \frac{1}{1 + G(s)}$$

$$= \lim_{s \to 0} \frac{1}{1 + \frac{1}{(s+4)(s+6)}}$$

$$= 0{,}96$$

$$K_p = \lim_{s \to 0} \frac{1}{(s+4)(s+6)}$$

$$= 0{,}04$$

Luego, $0{,}05 = \frac{z}{p}\, 0{,}04$

$$z/p = \frac{0{,}05}{0{,}04}$$

$$\frac{z}{p} = 1{,}25$$

$\therefore p = -1$

$z = -1{,}25$