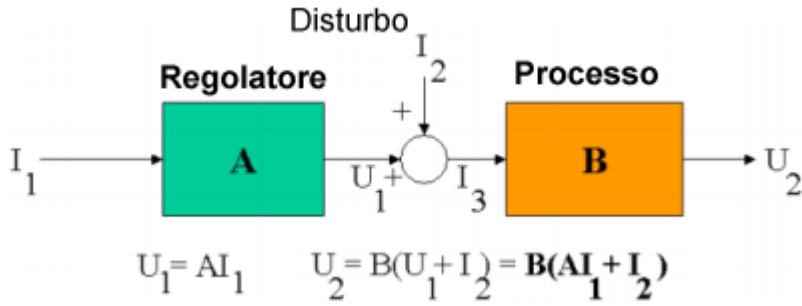


Sistema ad anello aperto



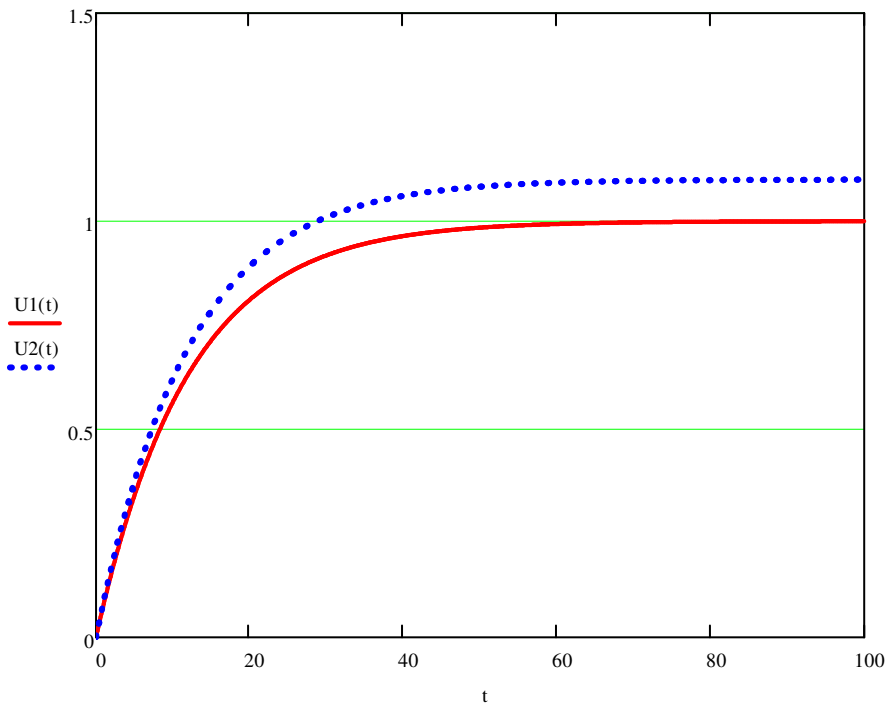
Effetto di un disturbo in ingresso al processo controllato

tau := 12 Ao := 1 t := 0,0.1.. 100

$G_f(s) := \frac{A_o}{1 + s \cdot \text{tau}}$
 $E(s) := \frac{1}{s}$ (Gradino)
 $D(s) := \frac{0.1}{s}$

$U_1(s) := E(s) \cdot G_f(s)$
 $U_1(t) := U_1(s) \text{ invlaplace} \rightarrow 1 - e^{-\frac{1}{12} \cdot t}$

$U_2(s) := (E(s) + D(s)) \cdot G_f(s)$
 $U_2(t) := U_2(s) \text{ invlaplace} \rightarrow 1.1 - 1.1 \cdot e^{-0.08333333333333333333333333333333 \cdot t}$



Il disturbo fa aumentare la grandezza controllata