## Colution

$$C(1-2^{-1}) \ge \frac{C(C+1)(C+1)}{S}$$

$$\frac{A}{S} + \frac{BS+C}{(S+1)(S+10)} = \frac{A(S^2+(1S+10)+BS+CS)}{S(S+1)(S+10)} = \frac{(A+B)S^2+(1A+C)S+10A}{S(S+1)(S+10)}$$

$$\begin{cases} A+B=0 & A=\frac{1}{60} \\ 11A+C=0 & B=-\frac{1}{10} \\ 10A=1 & C=-\frac{11}{10} \end{cases}$$

$$\mathbb{Z}\left\{\frac{\frac{1}{co}}{\varsigma} + \frac{-\frac{1}{co}\varsigma - \frac{1}{co}}{(s+1) cs+10}\right\}$$

$$\frac{A}{S+1} + \frac{B}{S+10} = \frac{AS+10A+BS+B}{(S+10)}$$

$$\begin{cases} A+B = -\frac{1}{6} & A = -\frac{1}{9} \\ 10A+B = -\frac{11}{6} & B = \frac{1}{90} \end{cases}$$

$$\begin{aligned}
&Q_{1} = -\frac{1}{10} + \frac{1}{10} = -\frac{10}{10} = -\frac{1}{9} \\
&B_{2} = -\frac{1}{16} + \frac{1}{9} = -\frac{9}{10} = \frac{1}{90} \\
&Z_{1} = -\frac{1}{10} + \frac{1}{90} = \frac{1}{90} = \frac{1}{90} \\
&Z_{1} = -\frac{1}{10} + \frac{1}{10} = -\frac{1}{10} + \frac{1}{10} = \frac{1}{10$$

$$= 9 z^{2} - 9(e^{-0.2} + e^{-0.0L}) z + 9e^{-0.02} - 0.2$$

$$= -10 (z^{2} - e^{-0.2} z - z + e^{-0.2}) + z^{2} - e^{-0.02} z - z + e^{-0.02}$$

$$= 6 \text{ hard to calculate.}$$

$$G(CS) = \frac{1.322}{5^2 + 2.0245 + 1.522}$$
 ? choose  $Z = 0.88$ ?

$$S_1 S_2 = -1.012 \pm 0.5458$$
;  $un = 1.15 rad/s$ ?  $3un = 1$ ?

$$\left. G_{\alpha}(3) \right|_{2=1} = C_{ci}(5) \Big|_{S=0} = \left| \right| = > \alpha = 2.5 \times 0^{-9}$$

0-38 X1.(5=1.012

$$C(z) = \frac{1}{G_{24}(z)} \frac{G_{C1}(z)}{1 - G_{24}(z)}$$

$$= \frac{0.25921 \times 6^{3}}{[.8604 \times 10^{-4}]} \frac{(3-0.8187)(z-0.9802)}{z+1} \frac{z+1}{z^{2}-1.96z+0.968}$$

$$= \frac{25921}{[.8604]} \frac{(2-0.8187)(2-0.9801)}{Zf0.9293} \frac{Z+1}{Z^2-[.96Z+0.968]}$$

$$(2-0.8187)(2-0.9801)-[.8604\times(0^{-4}[Z+0.7293)]$$

$$(2-0.8187)(2-0.9802)-[.8604\times(0^{-4}[Z+0.7293)]$$

$$= \frac{25921}{[.8604]} \frac{(2-0.8187)(2-0.9801)}{\text{Zf 0.9293}} \frac{(Z+1)(2-0.6187)(2-0.9802)}{(Z^2-1.96Z+0.96W)(2-0.9802)-[.8604](2-0.9802)}$$

How to calculate?

