$$\begin{aligned}
& (Q : \omega)(Z) = ? \\
& (D)(G)(Z) = ? \\
& (D)(G)(Z) = \frac{(CZ)}{R(Z) - CH(Z)} \\
& (D)(G)(Z)(Z) = (I - Z^{-1}) Z \int_{Z} \frac{G_{2}(S)}{S} \\
& = (I - Z^{-1}) \frac{1}{Z} \int_{Z} \frac{G_{2}(S)}{S} \\
& = (I - Z^{-1}) \frac{1}{Z} \int_{(I - Z^{-1})^{2}} \frac{G_{2}(S)}{S} \\
& = \frac{G_{2}(Z)}{(I - Z^{-1})^{2}} \\
& = \frac{G_{2}(Z)}{I - Z^{-1}} \\
& = \frac{G_{2}(Z)}{R(Z) - CH(Z)} \\
& = \frac{G_{2}(Z)}{I - Z^{-1}} \\
& = \frac{G_{2}(Z)}{I - Z^$$

$$= \frac{0.005 \, Z^{-1} (H \, Z^{-1})}{(H \, Z^{-1})^{2}}$$

$$= \frac{0.005 \, Z^{-1} (H \, Z^{-1})}{(H \, Z^{-1})^{2}}$$

$$= \frac{0.005 \, Z^{-1} (H \, Z^{-1}) \, U}{(H \, Z^{-1})^{2} + 40.005 \, Z^{-1}}$$

$$\frac{0.005 z^{-1} - 0.005 z^{-3}}{1 + (0.005 x - 2)z^{-1} + (0.005 x + 1)z^{-1}} = \frac{0.005 (z^2 - 1)}{z^2 + (0.005 x + 1)z^2 + (0.005 x + 1)z^2}$$

(b) from acc (2)

$$|2|_{1,2}|_{<1} => Stable$$

$$\left| Z \right| = \frac{|2 - 0.005 d \pm \sqrt{(0.005 d - 2)^2 - 4(140.005 d)}}{2}$$

$$-2 < 2 - 0.005 \text{K} \pm \sqrt{(0.005 \text{K} - 2)^2 - 4(140.005 \text{K})} < 2$$
 $4 < 0$ or $4 > 1600$

(b) 求根公式只等了实根,虚根在单位图内也稳定

$$\Delta = \int (0.0054 - 2)^2 - 4 \times 1 \times (40.0054) = 0$$

$$= \int_{2.5 \times 10^{-5}} d^2 - 0.01 d + 4 - 4 - 0.02 d$$

$$=\sqrt{25\times10^{-5}}$$
 -0.03

(b) try Jury test
$$\frac{C(z)}{k(z)} = \frac{(i \cdot l_2(z))}{|+ \alpha \cdot G_1(z(z))|}$$
|et |+\alpha \frac{0.005 z^{-1}(|+z^{-1})}{(|-z^{-1}|^2)^2} = 0

$$(1-z^{-1})^2 + \alpha \cdot 0.005 z^{-1} + \alpha \cdot 0.001 z^{-2} = 0$$

$$(1-z^{-1})^2 + \alpha \cdot 0.005 z^{-1} + \alpha \cdot 0.001 z^{-2} = 0$$

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$$(1-z^{-1})^2 + \alpha \cdot 0.005 z^{-1} + \alpha \cdot 0.001 z^{-2} = 0$$

$$z^2 + (\alpha \cdot 0.005 - 2) z^{-1} + ((1 + \alpha \cdot 0.005) z^{-2} = 0$$

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$$z^2 + ((1 + \alpha \cdot 0.005) z^{-1} + ((1 + \alpha \cdot 0$$

-2 < 0.005 < 0 -1000 -10

(a) others answer

$$\frac{Z}{Z-1} = \frac{0.005(1+Z)}{Z^2 + ZZ + 1 + d0.005} + \frac{20.005Z}{20.005Z}$$

$$\frac{0.065(Z^2 + 1)}{(Z^{-1})[Z^{-1} + (0.005A)Z] + (1+0.005A)Z}$$

$$= Z^{3} + (0.005A + 2)Z^{-1} + (1+0.005A)Z^{-1} - (1+0.005A)Z^{-1}$$

$$= Z^{3} + (0.005A + 1)Z^{-1} - Z^{-1} + (1+0.005A)$$

$$= Z^{3} + (0.005A + 1)Z^{-1} - Z^{-1} + (1+0.005A)$$

$$= Z^{3} + (0.005A + 1)Z^{-1} - Z^{-1} + (1+0.005A)$$