Q: Z年回车5 S平面,5年 damping Nation Example 11.2 — Lect 3. P_{13} close -loop poles at 0.888 $\pm j$ 0.173

Solution ① Z年面 at bj $\rightarrow r \pm 0$ method 1: $r = \sqrt{a^2 + b^2}$ $\theta = \tan^{-1}(\frac{b}{a})$ method Q: casio $fx - 99 / CN \times \frac{1}{2}$ $fx = \frac{1}{2}$ fx

章 $\Rightarrow 2:$ 复数 $\Rightarrow 0.888 + 0.173 L$ $\Rightarrow 0PTN \Rightarrow 1:rLO \Rightarrow =$ $0.905 \cancel{2} + 0.1924 radiane$ $0.193 \Rightarrow pt 鋭$

$$\zeta = -\frac{7nr}{\sqrt{2n^2r + 0^2}}$$

$$= \frac{7n \cdot 0.905}{\sqrt{220905 + 0.193^2}}$$

(2)
$$Z = e^{ST}$$
 $S = \frac{7nZ}{T}$ $S = \sigma + jw$
 $0.905 \not \downarrow 0.93$ $T = 0.9$
 $\sigma = \frac{7n0.905}{0.1} = -0.9982$
 $w = \frac{7n0.193}{0.1} = -16.4507$
 $S = -0.9982 - j16.4507$