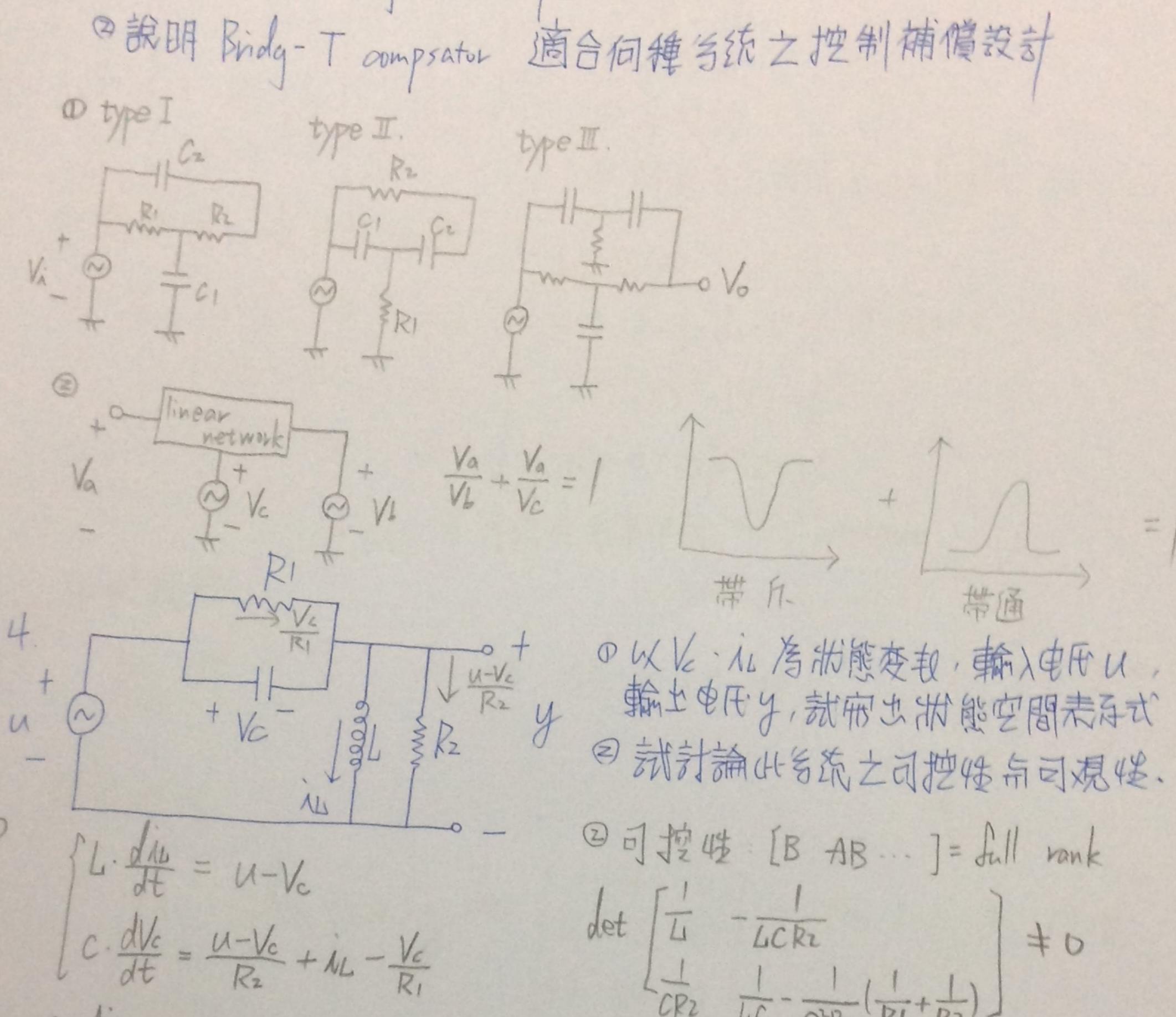
3. の試繪出3種 Bridg-T compensator (帶戶) ZRC电路



$$\begin{cases} c \cdot \frac{dV_c}{dt} = \frac{u - V_c}{R_2} + \lambda L - \frac{V_c}{R_1} \end{cases}$$

$$\begin{cases} \frac{d\lambda_L}{dt} = \frac{u}{L} - \frac{V_c}{R_1} \end{cases}$$

$$\begin{cases} \frac{d\lambda_L}{dt} = \frac{u}{L} - \frac{V_c}{L} \end{cases}$$

$$= \begin{cases} \frac{d\lambda_L}{dt} = \frac{u}{L} - \frac{V_c}{L} \end{cases}$$

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討討論此省統之 の稳定性 ②司控性 可可規格 田附出等统册成 controllable canonical form y=[1 4 0]x の穩定性, 或其告徵值: det (SI-A) =(5-1)-9-16-6(5-1)-2(5-1)-12(5-1) SI-4= |S-1 -3 -4 = 2-32-175-6 5-11 =(5-6)(5+35+1) 习有棍在右半平面,'unstable [B AB ···], det [B AB ··] = det [1 5 30] = 2 + 0
[1 4 25] = 1 可控 图司艰性: $C(SI-A)^{\dagger}B+D=[1 + 0]\cdot \begin{bmatrix} s-1 & -3 & -4 \end{bmatrix}^{\dagger}\begin{bmatrix} 1\\ -2 & s-1 & -1 \end{bmatrix}\begin{bmatrix} 0\\ -3 & -2 & s-1 \end{bmatrix}$ 25+1 5-25-11 5+7 x=1000 +1000 5+430 53-352-175-6 - 1-3-17-52-6.53 1-[3+52+5]

phas

僧出

证明

m = 5

109 拉

2013 並 情依題戶 (SI-A)=(S-1) Di det (SI-A) = 3-35+65-2 到意: [5=[B AB AB]=[0 -1 -1] Z=(A-BK)Z+BY : k1=4 12-(A-13K)] A-82 K2=18 = [0 0 0] - [0] [k, ks] 53-(3-R3)5-(-6-kz)5-(2-k,) $= \begin{bmatrix} 0 & 1 & 0 \\ 0 & 1 & 1 \end{bmatrix} = \frac{3}{5^{2}+65^{2}+115+6} (5-1)(5-2)(5-3)$ 13=9, R=5, R=5, R=[8 59] 12- R1 -6- R2 3- R3)

14:15-15-3

12amp

2 46