(904/0/02 自动化1利王 模电 常峰作业

沈

4.2
$$f_L = 10 \text{ Hz}$$
, $f_H = 10^5 \text{ Hz}$, $|Aum + 10^{\frac{30}{20}} \approx .31.6$
 $Au = \frac{-31.6 \text{ if } |10}{(1+\text{if})(1+\text{if})} = -\frac{3.16 \text{ if}}{(1+\text{if})(1+\text{if})}$

$$Aus. = \frac{-100 \text{ jf} \cdot \text{j}_{10}}{(1+\text{jf})(1+\text{j}_{10})(1+\text{j}_{2.5\text{x}10^{5}})} = \frac{10f^{2}}{(1+\text{jf})(1+\text{j}_{10})(1+\text{j}_{2.5\text{x}10^{5}})}$$

4.4. LPB接班和=104HZ, -60dB/10倍级.

- 11)由于农村上根城平,为直接耦合方式,
- (2) 高频设幅频特性分-60dB/10倍频, 数为三级放神路.

13)
$$f = 10^4 H 2 日 計 加超的-3 \times 45° = -135°,$$
 $f = 105 H 2 日 计 附 加稠的-3 \times 90° = -270°$

(4). 知路股份政府为10412,

4.5
$$A_{u} = \frac{-100}{(H+)f_0}(1+)f_0$$
 $f_0 = 10H2$, $f_1 = 10^5H2$.

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11) RC1 = . Rs + Rb 1/the = . 1.998 F.R. RC2 = . Rc + PL = . 10 F.R.

Ta=Tu= > Raica=Raica=) Cica=. RaiRaiz5

(2) 若 C_1 与 C_2 国路 財 泊岸数分25m5,即 $C_1 = T_{C2} = 15m5$ $\Rightarrow C_1 = 12.5MF, (2 = .2.5MF.$ $f_{L_1} = f_{L_2} = 2\pi T = .6.37H2,$ $f_{L_1} = 1.1\sqrt{\sum_{i=1}^{2}} = 1.6.37H2.$

(3) 图为R211R311R42R1/R3.对分(元) 时间等数对(元) 所在图略时间截,故然二级上限频率低