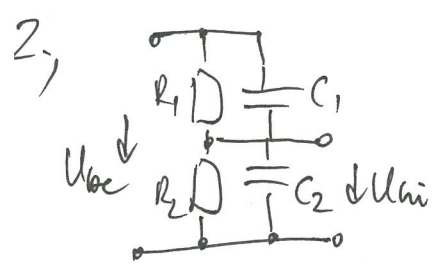


1.) konstansra vonatkozó, normális cloaladi rajzol kedett, független
 misha'era, ha a roba's clo're nem ismert

(1)

(1)

2



ha $R_1 C_1 = R_2 C_2$,
 akkor $\frac{U_{ui}}{U_{be}} = \frac{R_2}{R_1 + R_2}$

$Z_{be}(s) = \frac{R_1 + R_2}{1 + s\tau}$
 $\tau = R_1 C_1 = R_2 C_2$

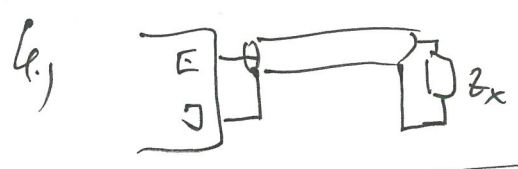
(1)

(1)

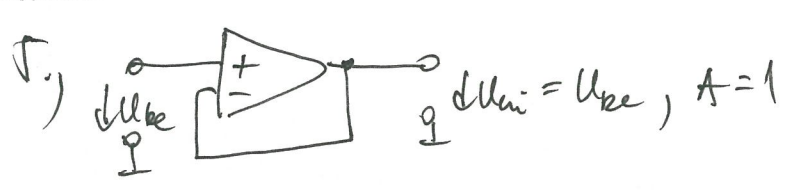
2

3.) $U_x = \frac{U_p}{\sqrt{3}}$, $U_n^2 = \sigma^2$ $SNR = 10 \lg \left(\frac{U_x^2}{U_n^2} \right) = 30 \text{ dB}$

1



1



$R_{be} \approx \infty$ terhelés levalasztása
 $R_{ui} = 0$ alkalmas

1

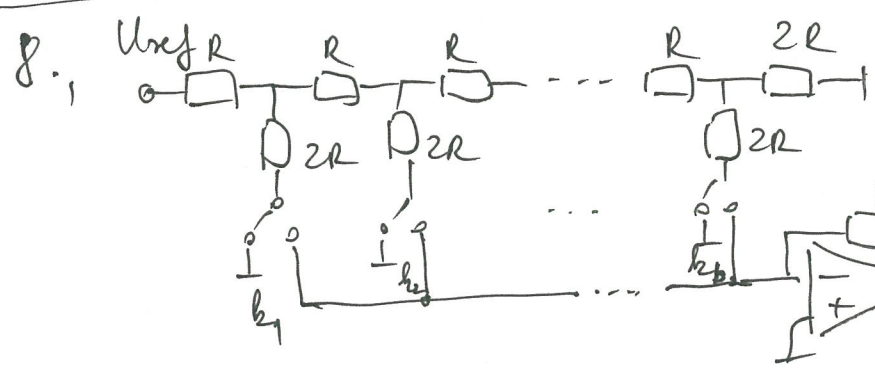
6.) $f_x = \pm f_m \pm k \cdot f_s$, $k = 0, 1, 2, \dots$ 2000 Hz, 19750 Hz, 20250 Hz, ...

1

7.) $\Delta f = \frac{f_s}{N} = 12 \text{ Hz}$ osztópontok: ... 432, 444, 456, ... Hz
 444 Hz -hez van horelebb esenyeres metjule.

[$f_s - f_x$ -an is van esely, ezt 9556 Hz -hez metjule.]

1



$k_i = \begin{cases} 0, & \text{ha } \downarrow \\ 1, & \text{ha } \rightarrow \end{cases}$

$U_{ui} = - \sum_{i=1}^b k_i \frac{U_{ref}}{2^i}$

1