


**Prob A.II.1.**  $R_L(\text{mín}) = 122\Omega$ ,  $V_o(\text{máx}) = 2.94 \text{ V}$ .  LTspice IV

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**Prob A.II.2.**

- 1)  $E_o \approx 180 \text{ mV}$ .
- 2)  $E_o \approx \pm 40 \text{ mV}$ .
- 3)  $E_o \approx 18 \text{ mV}$  para 1) y  $E_o \approx \pm 4 \text{ mV}$  para 2).

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**Prob A.II.3.**

- 1)  $E_o \approx 65 \mu\text{V}$ .
- 2)  $E_o \approx \pm 10 \mu\text{V}$ .
- 3)  $E_o \approx 6.5 \mu\text{V}$  para 1) y  $E_o \approx \pm 1 \mu\text{V}$  para 2).

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**Prob A.II.4.**  $E_o(\text{typ}) \approx \pm 21 \text{ mV}$ ;  $E_o(\text{max}) \approx \pm 126 \text{ mV}$

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**Prob A.II.5.**  $E_o(\text{max}) \approx \pm 245 \text{ mV}$ ;  $V_i \approx -8.9 \text{ mV}$ ;  $E_o(\text{typ}) \approx \pm 37 \text{ mV}$ ;  $V_i = -1.2 \text{ mV}$ .  LTspice IV

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**Prob A.II.6.**  $E_o(\text{max}) \approx \pm 465 \text{ mV}$ ;  $V_i \approx -15 \text{ mV}$ ;  $E_o(\text{typ}) \approx \pm 155 \text{ mV}$ ;  $V_i \approx -5 \text{ mV}$ .

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**Prob A.II.7.**  LTspice IV

- A:
- 1)  $f_{CS} = 32.2 \text{ kHz}$ .
  - 2)  $f_{SR} = 6.6 \text{ kHz}$ .
  - 3)  $V_i = 80 \text{ mV}$ .
  - 4) A 100KHz, Mag=19.7dB, Fase=107.5°.  $V_o=0.966 \text{ V}$  amplitud,  $T_{\text{delay}} \approx 3 \mu\text{s}$ .
- B:
- 1)  $f_{CS} = 143 \text{ kHz}$ .
  - 2)  $f_{SR} = 28.4 \text{ kHz}$ .
  - 3)  $V_i = 80 \text{ mV}$ .
  - 4) A 100KHz, Mag=15.3dB, Fase=-34.3°.  $V_o=0.58 \text{ V}$  amplitud,  $T_{\text{delay}} \approx -0.95 \mu\text{s}$ .

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**Prob A.II.8.**

- A: 1)  $f_{CS} = 129 \text{ kHz}$ .

2)  $f_{SR} = 172.4 \text{ kHz}$ .

3)  $V_o = 16V$ .

B: 1)  $f_{CS} = 571 \text{ kHz}$ .

2)  $f_{SR} = 738.9 \text{ kHz}$ .

3)  $V_o = 3.6 V$ .

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**Prob A.II.9.**  $A_V = 50$ ,  $V_o(\text{máx}) = 3.9 V$ .

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**Prob A.II.10.**  $A_V = 200$ .  $V_o(\text{máx}) = \infty$ .

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**Prob A.II.11.**

1)  $R_3 = (R_S + R_1) || R_2 = 2.79 \text{ k}\Omega$ ;  $E_o = \pm 7.165 \text{ mV}$ .

2)  $A_{VS} = -13.33$  o  $22.5 \text{ dB}$ ,  $f_S = 70 \text{ kHz}$ ,  $f_1 = 1 \text{ MHz}$ .

3)  $V_S(\text{max}) \approx 0.51 V$ .

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**Prob A.II.12.**

A) 1)  $32 \mu V$ , 2)  $0.13 \text{ mV}$ , 3)  $10 \text{ mV}$ .

B) 1)  $0.35 \text{ mV}$ , 2)  $1.4 \text{ mV}$ , 3)  $11 \text{ mV}$ .

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**Prob A.II.13.**

A) 1)  $10 \mu V$ , 2)  $1 \text{ mV}$ , 3)  $31.6 \text{ mV}$ .

B) 1)  $0.11 \text{ mV}$ , 2)  $11 \text{ mV}$ , 3)  $0.34 V$ .

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**Prob A.II.4.** 1)  $V_o = 1 \text{ mV}$ . 2)  $V_o = (1 \pm 3.16) \text{ mV}$ . 3)  $V_o \cong (1 \pm 141) \text{ mV}$ .