

Esercizio 1

E1=15 V, E2=19 V

A=10 mA

R1=5 kohm, R2=5 kohm, R3=3 kohm

R4=2 kohm, R5=6 kohm, R0=3 kohm

ReqE1=7.22222 kohm, ReqE2=7.8 kohm, ReqA=1.53846 kohm

Req0=1.53846 kohm

V0_E1=4.61538 V, V0_E2=2.4359 V, V0_A=15.3846 V

Icc_E1=3 mA, Icc_E2=1.58333 mA, Icc_A=10 mA

V0=22.4359 V, Icc=14.5833 mA

I0=4.9435 mA, P0=73.3147 mW

ESERCIZIO 2

E0=11 V, phi_e=-pi/3, f=100 kHz

E=15 V

C=1 nF, R1=3 kohm

R2=1 kohm, R3=4 kohm

Zeq=3.74416 PHI -6.91027 kohm

I1=2.93791 PHI -53.0897 mA

I=1.56302 PHI 4.76836 mA

V=2.48763 PHI -85.2316 V

V_0meno=0.292446 V

I_0meno=2.2028 mA

V_0piu=0.292446 V

I_0piu=4.61007 mA

DV_0piu=4.61007 MV/s

tau=0.75 micros

alpha=-1333.33 kHz

v_inf=3.75 V