

Esercizio 1

E1=5 V, E2=8 V

A=10 mA

R1=5 kohm, R2=4 kohm

R3=4 kohm, R4=0.5 kohm

Rseg=[9, -5, 4; -5, 9.5, 4; 4, 4, 8]kohm

A=[0, 0, 10, 0, 0, 0] mA

E=[0, 0, 0, 0, -5, 8] V

Vmaglia=[5, -40, -32] V

Imaglia=[-3, -6, 0.5] mA

I1=-3 mA, I2=2.5 mA, I3=5.5 mA

I4=-6 mA, I5=-3 mA, I6=-0.5 mA

Convenzione generatori:

PE1=-15 mW, PE2=4 mW, PA=180 mW

ESERCIZIO 2

R1=60 ohm, R2=73 ohm

L1=4 mH, L2=5 mH

M=1000 mH, C=80000 pF,

E=30 V, A=80 mA, f=10⁴ Hz

phi_E=pi/4, phi_A=pi/6

Zeq_E=1000 PHI 180 ohm

Zeq_A=0 PHI 0 ohm

V1_E=1000 PHI 0 V

V2_E=0 PHI 0 V

V0_E=11.9332 PHI 61.3676 V

V1_A=396.499 PHI 165.244 V

V2_A=393.807 PHI -16.4414 V

V0_A=28.9444 PHI -14.7556 V