

Esercizio 1

$E_1=11$ V, $E_2=15$ V

$A=11$ mA

$R_1=5$ kohm, $R_2=2$ kohm, $R_3=2$ kohm

$R_4=4$ kohm, $R_5=5$ kohm, $R_0=5$ kohm

$ReqE_1=6.46154$ kohm, $ReqE_2=6.46154$ kohm, $ReqA=1.13095$ kohm

$Req_0=1.13095$ kohm

$V_0_E_1=2.4881$ V, $V_0_E_2=0.892857$ V, $V_0_A=12.4405$ V

$I_{cc_E_1}=2.2$ mA, $I_{cc_E_2}=0.789474$ mA, $I_{cc_A}=11$ mA

$V_0=15.8214$ V, $I_{cc}=13.9895$ mA

$I_0=2.58058$ mA, $P_0=33.297$ mW

ESERCIZIO 2

$R_3=13$ ohm, $R_s=12$ ohm, $R_0=1$ ohm

$L_1=900$ mH, $L_2=1000$ mH

$E_1=220$ V, $E_0=80+j40$ V, $f=50$ Hz

$V_0'O=216.068$ PHI 134.375 V

$I_1=1.42165$ PHI -112.595 A

$I_2=1.10583$ PHI -173.205 A

$I_3=2.18792$ PHI 41.277 A

$Z_{th}=12.862$ PHI 4.92619 ohm

$V_{th}=28.443$ PHI 41.277 V

$I_0=4.49918$ PHI -164.659 A

$V_0'P=85.0341$ PHI 27.1551 V

$I_3=6.54108$ PHI 27.1551 A

$I_s=2.32725$ PHI 50.4709 A

$V_0'O=241.52$ PHI 147.385 V

$I_1=1.56677$ PHI -107.089 A

$I_2=1.06327$ PHI -163.757 A