Dati e risultati 30/06/2020

ESERCIZIO 1

A1=34 mA, A2=57 mA
E1=6 V, E2=19 V
R1=8 kohm, R2=8 kohm
R3=1 kohm, R4=5 kohm
R5=0.4 kohm, R6=0.8 kohm

Vnode=[218.365,26.0574,-7.6979] V
V1=-192.308 V,V2=-33.7553 V,V3=-226.063 V
V4=-218.365 V,V5=-7.6979 V,V6=26.0574 V,V7=-192.308 V
PA1=7.68615 W G
PA2=12.4468 W G
PE1=0.139731 W U
PE2=0.28035 W U

ESERCIZIO 2

E=15 V, phi_E=-pi/6
A=2 mA, phi_A=-pi/4
omega_e=2 Mrad/s, omega_a=3 Mrad/s
R1=6 kohm, R2=11 kohm
L1=292 microH, L2=293 microH, M=80 microH

Caso 1
Zeq_A=3882.3529+438.74872i ohm
Ie_A=-0.00020676+0.00020676i A
Va_A=6.111-4.87i V
Zeq_E=80.143913+1164.4842i ohm
Ie_E=-0.0056461-0.011544i A
Va_E=1.8992-1.0965i V
Pa=0.0197661 W
Qa=0.00289021 VAR
Pe=0.00899862 W
Qe=0.191172 VAR

Caso 2
Zeq_A=3882.3529+318.74899i ohm
Ie_A=-0.00020702+0.00020702i A
Va_A=5.9413-5.0397i V
Zeq_E=129.59854+1478.6411i ohm
Ie_E=-0.0042694-0.0091596i A
Va_E=1.9016-1.0979i V