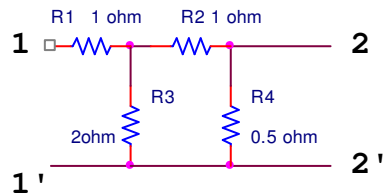


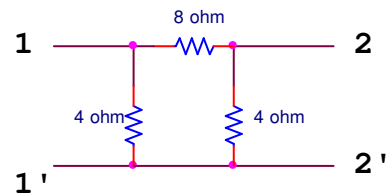
Department of Physics
Home Assignment 01(Analog Electronics - II, PHS203.1)
2020

Full Marks – 20

1. Find the Z parameters of the following circuit. (4)



2. Find the characteristic impedance of the circuit. (3)



3. Define image impedance of a network. Find its value for a given T network. (1+2)
4. State the two corollaries of Foster's reactance theorem. (3)
5. Define reflection coefficient of a transmission line. Hence show that if a transmission line be terminated by its characteristic impedance, there will be no reflection. (2+2)
6. Define iterative impedance of a network. (2)
7. What do you mean by equivalent circuit of a network? (1)