

Syllabus and Work Book

Chapter 2 :

Article 2.3 : Pozar

1. Define and Derive expressions for Reflection Co-efficient (5 marks)
2. Explain Boundary Conditions and determine the special values of Z_l for a Terminated loss less transmission line (10 marks)
3. Discuss and draw expression for Power along a transmission line (8 marks)
4. Derive expressions for special values of load impedance (10 marks)
5. Define and Explain Input impedance and also derive some expressions , explain some special cases of input impedance for particular values of transmission line length (10 marks)
6. Define and Explain Transmission Co-efficient (4 marks)

Article 2.5 Pozar

1. Define Smith chart and explain its disadvantages. Explain Certain areas, which are invalid for smith chart and their reasons as well
2. Define basic equations governing smith chart, and with the help of them draw a rough sketch of smith chart
3. Explain different scales in smith chart and explains its uses with help of examples
4. What is Slotted line and relate equation 2.58,2.59,2.60
5. What is Quarter wave transform , and explain its applications
6. Explains different applications of Transmission line
7. Explain Multiple Reflection view point , with respect to Quarter wave transform

Article 2.8

- I. Explain and derive expression for Lossy Transmission Lines
 - a. The low loss less line
 - b. Distortion less line

Numerical Work Sheet

