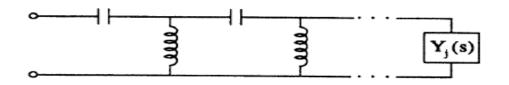
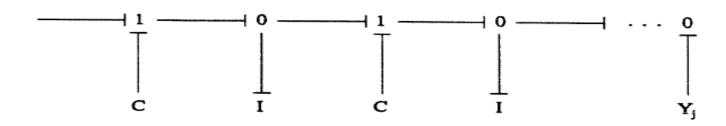
NETWORK ANALYSIS AND SYNTHESIS

Cauer First Form





$$Z(s) = rac{1}{C_1 s} + rac{1}{rac{1}{L_2 s} + rac{1}{rac{1}{C_3 s} + rac{1}{rac{1}{L_4 s} + rac{1}{\cdot \cdot \cdot}}}$$

Unit 5 (b) Filters

 Image parameters and characteristics impedance, Passive and active filter fundamentals, Low pass filters, High pass (constant K type) filters, Introduction to active filters. (4)

Frequency Characteristics of AC Circuits

- Introduction
- A High-Pass RC Network
- A Low-Pass RC Network
- A Low-Pass RL Network
- A High-Pass RL Network
- A Comparison of RC and RL Networks
- Bode Diagrams
- Combining the Effects of Several Stages
- RLC Circuits and Resonance
- Filters
- Stray Capacitance and Inductance

Introduction

- Earlier we looked at the bandwidth and frequency response of amplifiers
- Having now looked at the AC behaviour of components we can consider these in more detail
- The reactance of both inductors and capacitance is frequency dependent and we know that $X_C = \frac{1}{\sqrt{C}}$

THANKS....

Queries Please...