NETWORK ANALYSIS AND SYNTHESIS

Unit – II:

Network Theorems (Applications to AC Networks)

- Superposition theorem,
- Thevenin's theorem,
- Norton's theorem,
- Maximum power transfer theorem,
- Reciprocity theorem
- Millman's theorem
- Compensation theoremTellegen's theorem.

2.6 – Millman's Theorem

- Any number of parallel voltage sources can be reduced to one.
  - This permits finding the current through or voltage across R_L without having to apply a method such as mesh analysis, nodal analysis, superposition and so on.
    1. Convert all voltage sources to current sources.
    2. Combine parallel current sources.
    3. Convert the resulting current source to a voltage source and the desired single-source network is obtained.

THANKS….

Queries Please…