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.

2.7 – Substitution Theorem

- The substitution theorem states:
  - If the voltage across and the current through any branch of a dc bilateral network is known, this branch can be replaced by any combination of elements that will maintain the same voltage across and current through the chosen branch.
  - Simply, for a branch equivalence, the terminal voltage and current must be the same.

THANKS….

Queries Please…