Load Frequency Control

❑Introduction

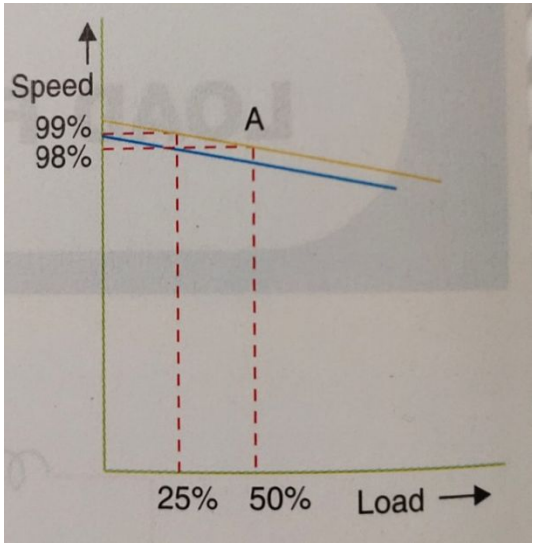

Fig. 1 Governor characteristic

❑ Load Frequency Problem

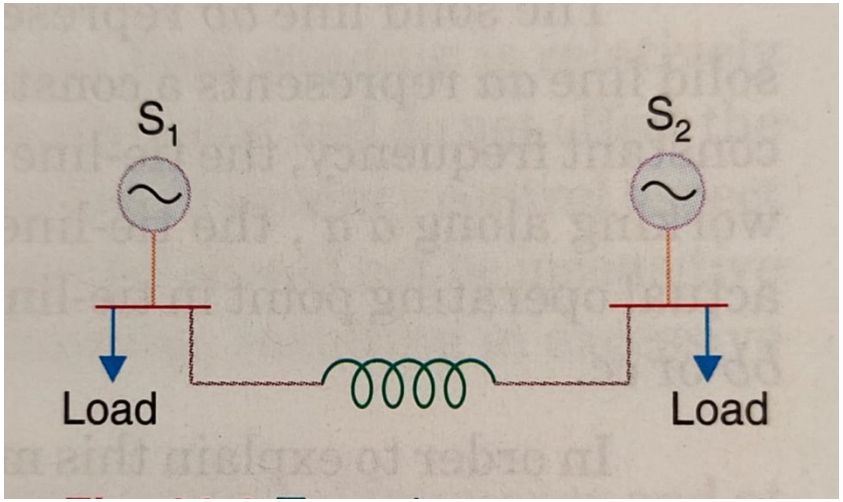

Fig. 2 Two Plants connected through a tie-line

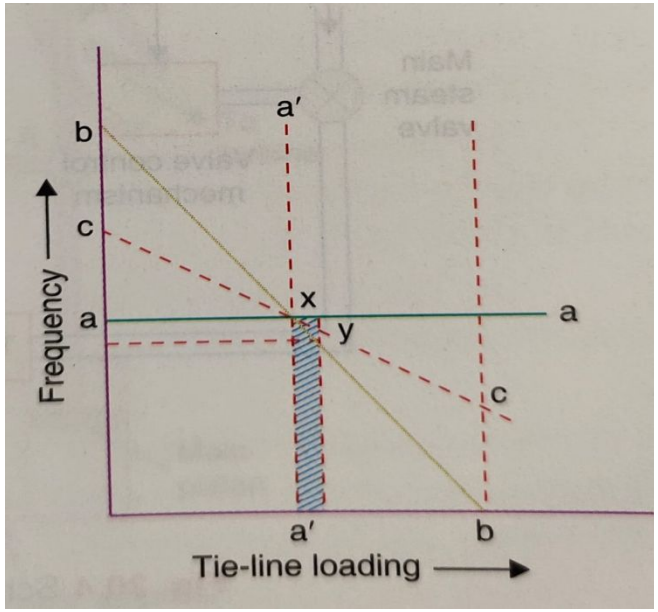

Fig. 3 Tie-line loading frequency characteristic

- Why load frequency control is important in power system?
- What is Automatic Load Frequency Control?
- What is control frequency?
- How does frequency change with load?
- What happens if frequency increase?
- What is the result of frequency instability?

- What is primary frequency control?
- What controls the frequency of a generator?
- What is control area concept?
- How is the real power in a power system controlled?
- Why does Active Power depend on frequency?
- What is single area load frequency control?

- Dynamic Frequency Response
- Method Of Steady State Stability Improvement
- Automatic Generation Control
- Automatic Voltage Regulator
- Flat Frequency Control

- Tie Line In Power System
- Voltage Instability
- Necessary Of An Interconnected Power System