

CASE STUDIES

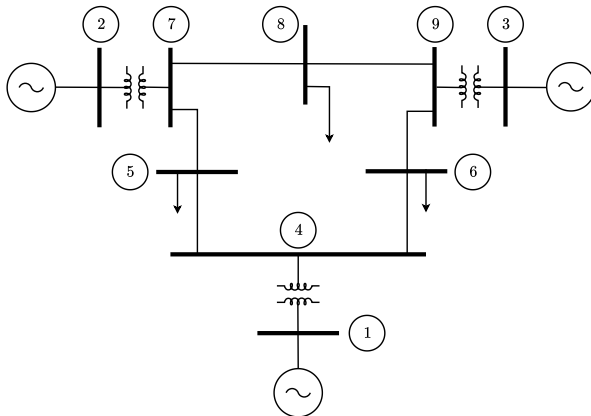


FIGURE: IEEE 9 Bus Test System

Large Disturbances

- Self-clearing fault
- Fault following by opening of line
- Line outage
- Sudden large change or loss of load
- Sudden large change or loss of generation
- Outage, followed by islanding

Small Disturbances

- Gradual change in load

EXAMPLES OF POWER SYSTEM

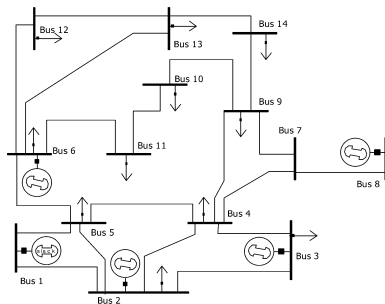


FIGURE: IEEE 14 Bus System

EXAMPLES OF POWER SYSTEM

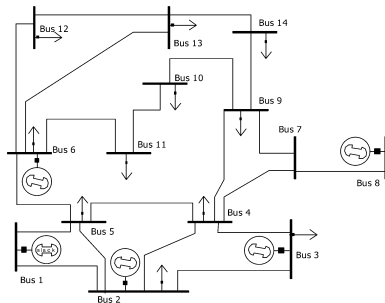


FIGURE: IEEE 14 Bus System

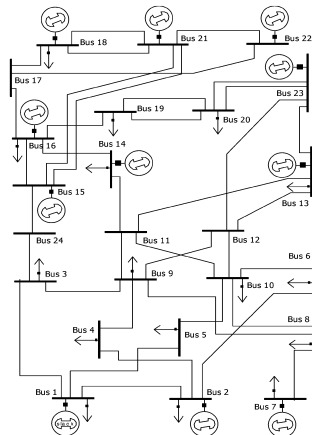


FIGURE: IEEE 24 Bus System

EXAMPLES OF POWER SYSTEM

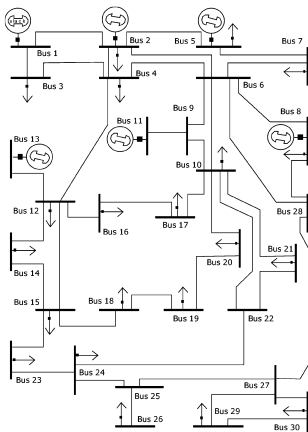


FIGURE: IEEE 30 Bus System

EXAMPLES OF POWER SYSTEM

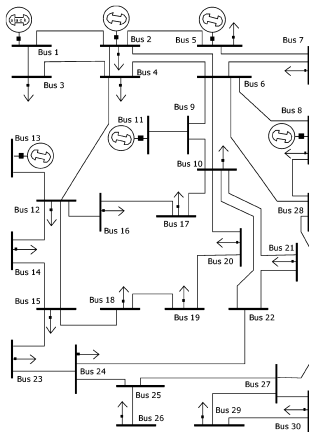


FIGURE: IEEE 30 Bus System

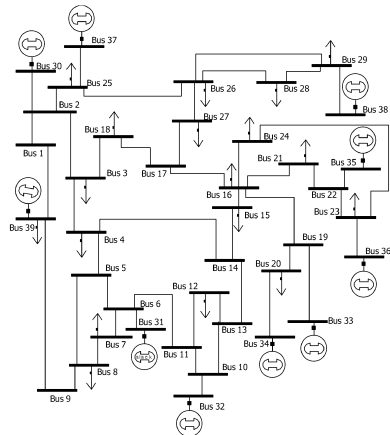


FIGURE: IEEE 39 Bus System

EXAMPLES OF POWER SYSTEM

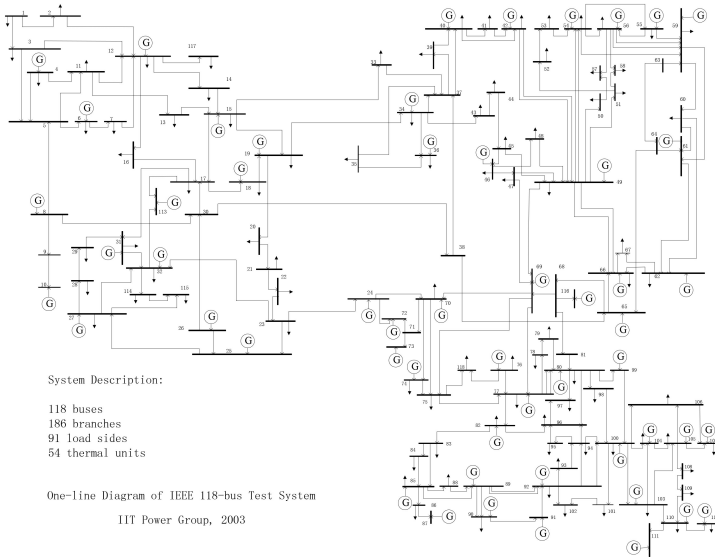


FIGURE: IEEE 118 Bus System