

Power Systems II EE441

Course Outlines

- ✓ Transient in R-L series circuits
- ✓ Internal voltage of loaded machines under fault conditions.
- ✓ Fault calculation using z bus.
- ✓ The selection of circuit breakers.
- ✓ The symmetrical components of unsymmetrical phasors
- ✓ Power in terms of symmetrical components.
- ✓ Sequence circuit of ΔY impedance synchronous machine and 3 phase transformers.
- ✓ Unsymmetrical faults on power system single line to ground faults
- ✓ Line to line faults and double line to ground faults
- ✓ Power system stability
- ✓ Further consideration of the swing equation
- ✓ The power angle equation and synchronizing power correction
- ✓ Equal area criterions of stability
- ✓ Further applications of equal-area criterion
- ✓ Step-by-step solution of the swing curve.