

Assignment for HVDC and FACTS

- Q. What is the principle of HVDC System operation? Discuss the technical and economic advantages of dc systems over ac systems.
- Q. Classify the type of HVDC links. Discuss the applications of each of these links.
- Q. What is ground return and why is it employed? Give the problems associated with the use of ground as the return conductor.
- Q. Why is HVDC interconnection considered superior to EHV-AC interconnection.
- Q. Why are 12-pulse converters universally employed in modern HVDC systems.
- Q. Define the term Static VAR Compensator (SVC)
- Q. Draw VI Characteristic of SVC
- Q. Draw the power angle curve of SVC compensated SMIB system?
- Q. What is the basic principle TCSC
- Q. Draw the impedance vs delay angle characteristic of TCSC.
- Q. What are the needs for variable series compensation.
- Q. What is UPFC and what are the advantages of UPFC.