Abstract

The static synchronous compensator (STATCOM) is used in power system network for improving the voltage of a particular bus and compensate the reactive power. It can be connected to particular bus as compensating device to improve the voltage profile and reactive power compensation. In this paper, a multi function controller is proposed and discussed. The control concept is based on a linearization of the d-q components with cascaded controller methods. The fundamental parameters are controlled with using of proportional and integral controller. In closed loop method seven level cascaded multilevel converter (CMC) is proposed to ensure the stable operation for damping of power system oscillations and load variation.

References

- Mahesh K.Mishra and Arindam Ghosh, Jan 2003, "Operation of a D-STATCOM in
Cascaded Control of Multilevel Converter based STATCOM for Power System Compensation of Load Variation


Index Terms

Computer Science
Control Systems
Keywords
FACTS  PWM  CMC  STATCOM