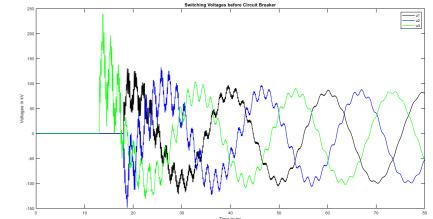


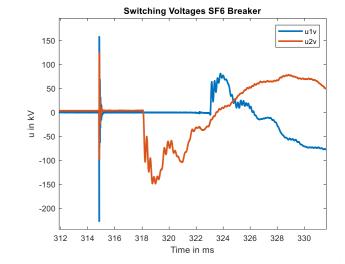


Analysis of Switching Overvoltages of a 110kV circuit breaker with EMTP



Overvoltages often occur in high voltage systems due to switching operations. In order to take possible reduction measures and to avoid negative effects, these processes must be investigated in more detail. In the course of a renewal of a substation, short circuit tests of 110 kV circuit breakers were made. The switching overvoltages occurring during the fault clearing were measured.

The aim of this thesis is to simulate the network structure in the simulation program EMTP (Electromagnetic Transient Program). Afterwards the influence of the different components should be investigated and the main parameters for the occurring voltages should be found.



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