

EEE 553 Switchgear and High Voltage Engineering

Generation of high AC, DC and Impulse voltages. High voltage measuring methods.

Fundamental processes of electrical discharges. Propagation of surges in HV transmission lines and in transformer coils. Protection of transmission lines and substations from lightning strokes, earthing, arrestor etc. interruption of short circuits, interruption of capacitive circuits; current chopping. Means of reducing overvoltages. Insulation coordination.