Lighting induced overvoltage phenomena in high voltage overhead distribution networks

- - A Study on Overvoltage Distribution Across the High Voltage Winding of an Electric Power Transformer

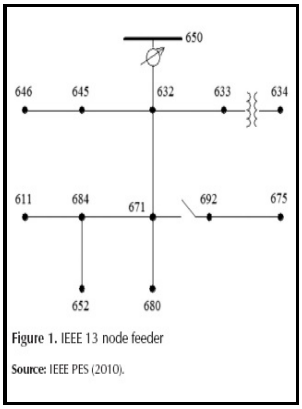

Figure 1. IEEE 13 node feeder
Source: IEEE PES (2010).

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-Lighting induced overvoltage phenomena in high voltage overhead distribution networks
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An Overview on Overvoltage Phenomena in Power Systems

MLVs come in various chip form sizes, and are capable of dissipating significant surge energy for their size.

Overvoltage Protection Due to Lightning and Switching

The results showed that surge arresters can be effectively used for improving the lightning performance of distribution lines even if they are not applied at every pole.

Investigation of Lightning

Transients on Signal Lines Fast transients can be coupled, usually capacitively, onto signal cables in common mode, especially if the cable passes close to or is routed alongside an impulsive interference source. Chapter 3 investigates the lightning performance of different surge protection schemes at the MV side of the distribution transformer subjected to both first and subsequent stroke currents.

A Study on Overvoltage Distribution Across the High Voltage Winding of an Electric Power Transformer

After a few microseconds, when the current time derivative becomes smaller, the influence of the inductances decreases and the division is controlled by the resistances. A suitable transformer model is essential for the evaluation of transferred surges.

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