Abstract

Distance relays perform a major role in the protection of transmission lines. Distance relays are operated with different zones in order to demonstrate that they can provide better protection. This paper explains the modelling of distance relay using Matlab/Simulink package. The paper discusses in detail the response of multiple distance relays at single line to ground (SLG) fault. The setting of distance relays on IEEE 3 Bus is presented for a quadrilateral characteristic of distance relay, considering sensitivity and selectivity criteria for protection zones.

References

2. A.P. Vaidya & Prasad A. Venikar, 2012. “Distance Protection Scheme For Protection of


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Distance relay, IEEE 3Bus, Single line to ground (SLG) fault, Principals of distance relay, Setting of distance protection