

# Parallelogram Characteristics in Relay Protection

The principle of distance protection is based on the determination of the fault impedance from the measured short-circuit voltage and current at the relay location as illustrated in figure 1.

This is an example of the need to consider the proper co-ordination of multiple relay elements to attain reliable relay performance during evolving fault conditions.

Relay is equipped with backup distance protection function based on impedance using parallelogram characteristic (on R-X plane) to avoid malfunction of relay due to load encroachment.

The integrated microprocessor based numerical 25 kV feeder protection module comprising of parallelogram characteristic distance protection, WPC, Inst. OCR, PTF, auto reclosure relay and ...

The module is designed for 25kV AC feeder protection and features low component burden, self-diagnostics, communication capabilities, and integrated protection functions.

The loci of electrical power system impedances, as detected by the protection relay during faults, power swings and load changes, may be shown on the same graph. The service of the protection relay in ...

Abstract--This paper analyzes factors affecting the performance of current polarized reactance elements and provides guidelines to ensure the security of Zone 1 quadrilateral distance elements.

Figure 5.1 shows the parallelogram characteristics of a distance protection relay in R-X plane, which is used to protect the OHE. The relay is equipped with three zones of protection in single phase mode ...

Protective relays and devices have been developed over 100 years ago to provide "lastline" of defense for the electrical systems. They are intended to quickly identify a fault and isolate it so the balance of ...

Definite time delay means that the protection operate time dose not change or depend on the fault type or the fault current magnitude. Inverse time delay, on the other hand, depends on the current ...



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