FAULT LOCATION CALCULATION BASED ON TWO

TERMINAL DATA OF HIGH VOLTAGE TRANSMISSION LINE

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ABSTRACT

Nowadays, power supply has become a business asset. The quality and reliability of power system needs to be maintained in order to obtain optimum performance. Therefore, it is extremely important that transmission line faults from various sources to be identified accurately, reliably and be corrected as soon as possible. This paper presents fault location algorithm based on date measured at both ends of two terminal single high voltage transmission line. MATLAB/ Simulink software was used to implement these algorithms. The simulation results demonstrate the validity of the suitable fault location method in 400KV transmission line.

KEYWORDS: Fault Location, MATLAB, Fault Impedance, Distance Factor, Pure Fault Voltage, Positive Sequence Impedance, Accuracy of Fault Location