Thanakorn Penthong 2013: Computer Software Development for Automatic Distance Relay Setting of Transmission Line Protection for Provincial Electricity Authority. Master of Engineering (Electrical Engineering), Major Field: Electrical Engineering, Department of Electrical Engineering. Thesis Advisor: Associate Professor Kiatiyuth Kveeyarn, Ph.D. 91 pages.

This thesis is the computer software development for automatic distance relay setting program to overcome the problem of the overlapping of protection zone. This program is aimed to be used as a tool for calculating the setting values for each protection zone of the digital distance relay. The program developed can be used for protection design of closed loop and radial systems of Provincial Electricity Authority (PEA) without the problem of overlapping of protection zone. It will result in improved protection design with short time consuming. The program developed ensures that distance relay is working correctly in its protection zone which leads to higher reliability of the primary transmission line system for Provincial Electricity Authority. This program is developed using DPL Script (Digsilent Programming Language).

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