

AN IMPROVED METHOD FOR DISTRIBUTION OF LOADS AND CONFIGURATION OF DISTRIBUTION SUB STATION

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Abstract

In this paper a method is proposed for locating an optimum site for a substation which has the minimum distance from the various load points whose co ordinates are mentioned. We may use the site thus obtained for the construction of sub station which will lead to optimum conductor layout. Genetic algorithm has been used for the purpose of choosing the optimum location. The results of the discussed techniques will lead to a configuration of substations that will minimize substation construction cost. It will further lower long range distribution expenses as it will lead to optimum feeder path.

Keywords: Power Distribution, Genetic algorithm, Optimum feeder path.