

Turkish Journal of Electrical Engineering & Computer Sciences

Turkish Journal

of

Distribution System Planning Usign Mixed Integer Programming

Electrical Engineering &
Computer Sciences

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 [Keywords](#)
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Abstract: This paper presents an improved mathematical model to optimise the size and locations of substations and the network routing problem. The model was formulated to minimise the total cost of the network by determining the optima of the substation locations and power, the load transfers between the demand centers, the feeder routes and the load flow in the network subject to a set of constraints. The computational results of a devised sample problem indicate that the developed optimisation model and its code are adequate for computer aided planning of distribution systems.



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Turk. J. Elec. Eng. & Comp. Sci., **6**, (1998), 37-48.

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