

عنوان مقاله:

ITERATIVE IMPROVEMENT METHOD AND MIXED-INTEGER PROGRAMMING IN SYSTEM PLANNING

محل انتشار:

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خلاصه مقاله:

In this paper, system planning network is formulated for mixed-integer programming and a GA. The cost function of this problem consists of the capital investment cost in discrete form, the cost of transmission losses and the power generation costs. The DC load flow equations for the network are embedded in the constraints of the mathematical model to avoid sub-optimal solutions that can arise if the enforcement of such constraints is done in an indirect way. The solution of the model gives the best line additions, and also provides information regarding the optimal generation at each generation point. This method of solution is demonstrated on the expansion of a 5 bus-bar system to 6 busbars.

کلمات کلیدی:

System Planning, Genetic Algorithm, Mathematical Programming, Artificial Intelligence, Iterative Improvement Methods, Heuristic techniques

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