عنوان مقاله:
Optimal Design of Transmission Lines

محل انتشار:
ششمین کنفرانس بین المللی مهندسی عمران (سال: 1382)

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خلاصه مقاله:
This paper contains, in part, some results of a research program conducted by Iran University of Science and Technology on the optimal design of transmission lines for Iran. The program was aimed to look at the optimization of transmission lines in a general sense taking into account many mechanical, electrical, economical, social and political issuse.The paper contains a general consideration of the important parameters and their importance, a brief look at the existing transmission systems and discussion of their advantages and disadvantages, then concentrates on the classical optimization of the transmission poles. After identifying the design variables, a cost function is designed and both stress and displacement constraints are imposed. The problem is solved for a typical high voltage line.

کلمات کلیدی:
Design + Optimization + Transmission + High Voltage

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