

عنوان مقاله:

Analysis and Design of 700 kv--AC Transmission Guyed Tower

محل انتشار:

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خلاصه مقاله:

With ever increasing rate of technology improvements, the need for energy increases. The most convenient form of energy to use is electrical energy. Of production, transmission and distribution, which are different aspects of electrical power technology, transmission plays an important role. To fulfill the requirements of today's needs for electrical energy, the power transmission lines should be designed more efficient in accordance with the energy loss during transmission. One alternative to reduce energy loss is to use high voltage lines. The highest voltage in use in Iran is 400 kv, whereas in advanced countries such as the United States, Canada and Japan research is being carried out on 1500 kv and even higher voltage lines. As the voltage of transmission lines increases, the height and subsequently the forces acting on towers as well as electrical limitations surmount which require new towers to be designed. Guyed towers are one of the solutions, which are not still in usage in Iran as transmission towers. In this paper the towers being proposed for high voltages lines are investigated and the recommended guyed tower by the authors is suggested

کلمات کلیدی:

Guyed towers, transmission line, high voltage power

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