

عنوان مقاله:

Optimum Operation of Overhead Transmission Lines Respect to Climate Condition

محل انتشار:

بیست و سومین کنفرانس بین المللی برق (سال: 1387)

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خلاصه مقاله:

Conductor temperature is one of the important parameters which limits energy transmission in electrical systems. By identifying of transmission system, transmission lines and its critical points and also climate condition of the region where the system is placed, conductor's real temperature can be calculated. Having these information causes to increase capacity and to use the transmission lines capacity effectively, without losing of transmission network safety. In this article, allowable confines of transmission lines capacity are determined, and maximum transmittable line powers are calculated, respect to lines conductors temperature. Then different methods to determine transmission lines ampacity, respect to climate condition are represented. These methods are compared in an economical load flow. At the end, it is concluded that selection of proper method to estimate transmission line .ampacity, results economical providence, without violation of line temperature from allowed boundaries

کلمات کلیدی:

Transmission Line, optimum operation, climate condition, ampacity

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