

عنوان مقاله:

A New Method for Calculating Transmission Power Losses Based on Exact Modeling of Ohmic Loss

محل انتشار:

بیست و پنجمین کنفرانس بین المللی برق (سال: 1389)

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خلاصه مقاله:

Ohmic power loss is the main part of losses in transmission and sub-transmission lines. Exact modeling of this part is necessary for precise evaluation of power losses and reduction of the calculation errors in comparison with real situation. In this paper, ohmic loss of transmission lines is modeled as a function of lines' current and environmental situation of operation. Then the Fast Decoupled load flow is modified to utilize this modeling in loss calculations. By this method, ohmic loss of transmission lines is calculated more precisely and the results are closer to real values. Simulations are carried out and the results are presented to compare the effectiveness of this method

کلمات کلیدی:

Fast decoupled load flow (FDLF), Temperature equilibrium of transmission line's conductor, Ohmic loss modeling

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