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Comprehensive Evaluation Method of Transformer Condition Based on Cloud Matter Element and CGT

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with the development of power grid, the practicability and reliability of the evaluation method of transformer, as the key equipment of power network, are paid more and more attention. Aiming at the problem that some evaluation indexes are not easy to quantify in transformer evaluation system, a transformer condition assessment method based on cloud matter element and cooperative game is proposed in this paper. Firstly, a relatively complete evaluation index system is established, and the weight of each index is calculated by AHP, entropy and neural network, and then the weights of the three methods are combined by cooperative game , and the weight of each index are obtained . Secondly, the state of transformer is evaluated by cloud model and matter-element extension theory. Finally, a case analysis is carried out to verify the rationality and effectiveness of the method.

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