

عنوان مقاله:

Evaluation of transformer life based on Pareto and Monte Carlo search algorithm distribution

محل انتشار:

ششمین کنفرانس بین المللی پژوهش های کاربردی در علوم و مهندسی (سال: 1401)

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نویسندگان:

Abbas Sief - Tehran Markaz Smart Networks Research Center

Hossin Seif - Department of Electrical Engineering, Imam Hossein University

خلاصه مقاله:

As in many studies, the remaining life of the transformer is estimated according to its insulation age. In this modeling, first the transformer insulation life curve in the ideal state is investigated. However, since transformer insulation for various reasons such as overvoltage, temperature changes, etc. does not always show ideal behavior throughout its life, this assurance of ideal behavior is modeled by the Pareto distribution. to be. In this modeling, the distribution of the Pareto with the help of aging factors affecting the aging of the insulation creates a margin of confidence around the insulation aging curve, justifies the assurance of ideal behavior, and in other words, creates a life history of health. From the transformer he does After making a health history for the transformer, it is possible to predict the remaining life of the transformer and determine the time of loss of paper insulation based on this history and using the Monte Carlo distribution.

کلمات کلیدی:

Aging insulation, Algorithm, Transformer life, Pareto

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