

Using FEM for Power Transformer Electromagnetic and Thermal Analysis

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Abstract

The efficiency of FEM analysis for the design of electromagnetic devices has already been established for many decades. However relatively few studies were accomplished when the devices are power transformers. In this paper this method will be applied to such structures, considering electromagnetic and thermal aspects. To achieve this analysis the system EFCAD is employed. It has the necessary tools to handle the electromagnetic and thermal quantities present in the transformers. In this paper we will briefly present the method and final results will be presented soon, since some additional work must be accomplished.

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