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On the Study of the Layer-Short in the Winding of Power Transformer in Running at the Attack of the Impulse Voltage

Tadao ISHIDA

It is well known that there occurs the A. C. layer-short in the winding of transformer in service, when once the impulse voltage passed through the deteriorated layer in the transformer winding.

It is difficult to examine whether the A. C. layer-short appeared or not, because the fault current, in this case, may be instantaneous.

We have carried on the experiment through the following process ; ... we applied such impulse voltage as the winding causes the layer-short.

We observed the current and voltage, using the electromagnetic oscillograph, to find the A. C. artificial layer-short of the winding in very short time.

When the A. C. short-circuit current vanishes after its having followed in several cycles, the exciting current may recover immediately.

If so, it may be found by this method that the A. C. layer-short appeared only instantaneously.

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