

## **A SIMPLE TRANSFORMER MODEL FOR ANALYSIS OF TRANSFERRED LIGHTNING SURGES FROM MV TO LV LINES**

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### ***ABSTRACT***

*This paper presents a distribution transformer model which has been developed aiming at the analysis of transferred lightning surges from MV to LV lines, taking into account the load conditions, as well as the experiments that were conducted for the verification of its validity. The results of the comparisons between measured and calculated voltages indicate that the proposed model can be an useful tool for the evaluation of transferred surges, taking into account the compromise between accuracy and simplicity. Some examples of the applicability of the model, in terms of the calculation of surges in LV networks are also presented.*