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EVALUATION OF MODELS FOR REPRESENTING USUAL GROUNDING ELECTRODE CONFIGURATIONS OF DISTRIBUTION LINES IN BRAZIL

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Abstract – This work presents some results concerning the determination of models for representing distribution line earthing behaviour, for applications related to the evaluation of lightning induced current effects. For developing such models, an accurate field theory based computational model was systematically employed. The simulations considered variable values for soil resistivity and different grounding electrode configurations, which are typically employed in Brazilian distribution lines.