

modeled in this paper.

Simulated model has been used to verify the basic design of the coil for the assessment of expected behavior of coil during modification in design. Simulated model of coil can be used to propose better diagnostic techniques in cables, transformers and other electrical apparatus, before real implementation. In real-life application, there would be multiple RCs needed for the full diagnostics, as the diagnostic methods may require multiple coils for multi-end measurements. During research stages while the coil manufacturing is not done with the specialized equipment, multiple coils may not be perfectly identical even for the same design of coil. Non-uniform turn density, imperfect central position of the return loop and loose connections may result in ambiguities in measured signals. Simulating the diagnostics set-up with such a model, using parameters identified for each coil, will provide better accuracy and concurrency of the response.

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