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Improved secondary windings for the Tesla transformer

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Following impulse excitation of the primary winding of a Tesla transformer, the secondary response contains a fundamental component plus higher-order mode. The paper will describe a winding technique that enables the higher-order modes to be suppressed, and so provide a transformer output with an improved spectral purity, that is better suited for use in many high-power applications than conventionally–wound transformers. Experimental results will demonstrate the benefits of the proposed technique.

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