Abstracts

The Method of Lines for the Analysis of Rectangular Spiral Inductors

An accurate procedure is presented for the investigation of the electrical properties of rectangular spiral inductors. The models of the analyzed spiral inductors are composed of straight and bent multiple-line sections. The line sections are analyzed with the well-known Method of Lines (MoL). For the bends of coupled lines, a new analysis is used. The procedure considers all self- and mutual inductances of the straight multiple-line sections, as well as the electrical characteristics of the bends of coupled lines.

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