Abstracts

A Vector Surface Integral Approach to Computing Inductances of General 3-D Structures

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A new approach to calculating the magneto-quasistatic but frequency-dependent inductance of three-dimensional conductors is presented. A vector surface integral formulation is used, as this requires only a conductor surface discretization, and an excitation source which ensures current conservation is self-consistently computed. Results are presented to demonstrate that the method is effective for computing the inductance and the resistance for general 3-D structures.

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