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34 ©2010 IEEE Partial Inductance Clayton R. Paul, Mercer University, Macon, GA (USA), paul_cr@Mercer.edu Abstract—The increasingly important concept of partial inductance as opposed to loop inductance in high-speed, digital systems is discussed. It's use in explaining the concepts of "ground bounce" and "power rail collapse" in

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General Meaning of Partial Inductance. Physical Meaning of Partial Inductance. Self Partial Inductance of Wires. Mutual Partial Inductance between Parallel Wires. Mutual Partial Inductance between Parallel Wires that are Offset. Mutual Partial Inductance between Wires at an Angle to Each Other. Numerical Values of Partial Inductances and Significance of Internal Inductance

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Equipotential shells for efficient partial inductance extraction
Abstract: The shift-truncate potential method was introduced as an approach to sparsify the partial inductance matrix while maintaining the stability and symmetry.

Equipotential shells for efficient partial inductance ...

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Inductance: Loop and Partial | IEEE eBooks | IEEE Xplore

Partial Inductance- Simplified ... the real story of how transmission lines radiate Eric Bogatin, GigaTest Labs and Charles Grasso, Echostar Communications Corp Rocky Mountain Chapter EMC Society, IEEE Dec 4, 2003 www.GigaTest.com
MYTHS Slide - 2 Overview • Radiated emissions and antennas • Common currents • Revealing the secret of radiated emissions

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IEEE Fellow, IBM Distinguished Engineer Bruce.arch@ieee.org
Inductance and Partial Inductance What's it all mean? Bruce Archambeault, PhD 2 Inductance • Probably the most misunderstood concept in electrical engineering - Do not confuse 'inductance' with 'inductors' ...

Inductance and Partial Inductance What's it all mean?

The inductance coefficients of a part of a circuit, and their applications Abstract: Problems in connection with cables and their sheaths can in some cases be usefully discussed by means of certain coefficients which are called in this paper partial inductance coefficients, so as to distinguish them from the ordinary self and mutual-inductance coefficients, the formulæ for which apply to complete circuits only.

The inductance coefficients of a ... - ieeexplore.ieee.org

Clearly I'm wrong, as if you consider the inductance of a 1m loop

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of 1mm wire my formula gives an inductance of 0.1uH and the real formula gives 1.02uH, which is quite a difference. This gross misunderstanding may or may not be relevant to my question. The actual question. I frequently see talk of partial inductance and this confuses me.

What is partial inductance? - Electrical Engineering Stack

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Partial element equivalent circuit method is partial inductance calculation used for interconnect problems from early 1970s which is used for numerical modeling of electromagnetic properties. The transition from a design tool to the full wave method involves the capacitance representation, the inclusion of time retardation and the dielectric formulation. Using the PEEC method, the problem will be transferred from the electromagnetic domain to the circuit domain where conventional SPICE-like circ

Partial element equivalent circuit - Wikipedia

Partial Inductance- Simplified - IEEE Web Hosting Partial inductance is derived from usual inductance by integrating the B field over a surface (giving flux), treating B as the curl of the vector potential A, with the flux integral now becoming a path integral of A on the path bounding the surface (the loop) by Stokes' Theorem. This book should be your first and last resort. Inductance: Loop and Partial (Wiley - IEEE), Paul, Clayton ...

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Partial inductance is derived from usual inductance by integrating the B field over a surface (giving flux), treating B as the curl of the vector potential A, with the flux integral now becoming a path integral of A on the path bounding the surface (the loop) by Stokes' Theorem. This book should be your first and last resort.

Inductance: Loop and Partial (Wiley - IEEE), Paul, Clayton

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IEEE-46188-4 Inductance: Loop and Partial. The only resource devoted Solely to Inductance. Inductance is an unprecedented text, thoroughly discussing "loop" inductance as well as the increasingly important "partial" inductance. These concepts and their proper calculation are crucial in designing modern high-speed digital systems.

Inductance: Loop and Partial, Inductance,IEEE ...

Fills the need for practical knowledge of partial inductance, which is essential to the prediction of power rail collapse and ground bounce problems in high-speed digital systems Provides a needed refresher on the topics of magnetic fields

Wiley-IEEE Press: Inductance: Loop and Partial - Clayton R ...

Unlike other texts, Inductance provides all the details about the derivations of the inductances of various inductors, as well as: Fills the need for practical knowledge of partial inductance, which is essential to the prediction of power rail collapse and ground bounce problems in high-speed digital systems Provides a needed refresher on the topics of magnetic fields Addresses a missing link: the calculation of the values of the various physical constructions of inductors—both intentional ...

Inductance: Loop and Partial | Wiley

This presentations talks about inductance, one of the most important concepts from an EMC point of view because it dominates how high data rate return current will flow. Understanding that the path of the current is more important than conductor size is an important concept in the reducing of inductance.

EMC - Bruce Archambeault - Inductance and Partial ...

The theory of partial inductance is a powerful tool for

understanding why digital circuits radiate and in designing strategies to mitigate this radiation. In fact, it can be fairly said that nothing is more central to understanding EMI phenomena than understanding of the theory

Know Partial Inductances to Control Emissions

The only resource devoted Solely to Inductance Inductance is an unprecedented text, thoroughly discussing "loop" inductance as well as the increasingly important "partial" inductance. These concepts and their proper calculation are crucial in designing modern high-speed digital systems.

Inductance: Loop and Partial (Wiley - IEEE) by Clayton R

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