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The Capacitor Handbook: A Comprehensive Guide For Correct ...

Inductors are
components that are
simple in their
construction,
consisting of coils of

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insulated copper wire wound around a former that will have some type of core at its centre. This core might be a metal such as iron that can be easily magnetised; or in high frequency inductors, it will more likely to be just air.

Inductors - Electronics

An inductor, also called a coil, choke, or reactor, is a passive

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two-terminal electrical component that stores energy in a magnetic field when electric current flows through it. An inductor typically consists of an insulated wire wound into a coil. When the current flowing through the coil changes, the time-varying magnetic field induces an electromotive force in the conductor, described by Faraday's law of induction.

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According to Lenz's law, the induced voltage has a polarity which opposes the

Inductor - Wikipedia

Fundamentals of Power Electronics Chapter 14:

Inductor design⁷ The window utilization

factor K_u also called the "fill factor" K_u is

the fraction of the core window area that is filled by copper

Mechanisms that cause K_u to be less than 1: •

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Round wire does not pack perfectly, which reduces K_u by a factor of 0.7 to 0.55 depending on winding technique

Chapter 14 Inductor Design

A seminal reference for inductance calculation (which, unfortunately is now out of print) is the Frederick Grover book. Professor Grover spent most of his professional life

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calculating inductance of different kinds of wire loops, and many useful examples and tables are given for loops of interesting shapes and sizes.

Inductance Calculation Techniques --- Part II

Introduction The design of an ac inductor is quite similar to that of a transformer. If there is no dc flux in the

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core, the design calculations are straightforward. The apparent power, P_t , of an inductor is the VA of the inductor; that is, the product of the excitation voltage and the current through the inductor.

Chapter 10 AC Inductor Design - University of North

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Description This book
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Handbook A guidance and application information when using inductors in electronic and electrical circuit design. This easy-to-use book covers all Ferrites (pot cores, toroids, beads, chokes, slugs, etc.) and Transformers. This book also has a very comprehensive Glossary and Index.

The Inductor Handbook : Cletus J

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9780962852541

A few simple formulas can help find design limits and a more comprehensive approach can help the designer establish optimal positions, quantities and sizes for gaps within inductor cores. There are additional benefits that can be realized from this approach, which allow for smaller size and lower costs.

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Optimizing Magnetic Core Gapping for Low-Loss Sine-Wave

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