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Transformer And Inductor Design Handbook

converters, input filter design, current, rotary, planar, autotransformer and saturable (magnetic amplifier) transformer design, winding capacitance, leakage inductance, and a chapter titled "Derivations for the Design Equations." The book contains much practical information as a handbook but seems to belong in the 1970s.

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His previous books on transformer and inductor design, magnetic core characteristics, and design methods for converter circuits have been widely used by magnetics circuit designers. In this book, Colonel McLyman has combined and updated the information found in his previous books.

TRANSFORMER AND INDUCTOR DESIGN HANDBOOK

The design of an ac inductor is quite similar to that of a transformer. If there is no dc flux in the 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. $P_t = V I$, [watts] [10-1]

Chapter 10 AC Inductor Design - University of North ...

Transformer phasing in d.c. to d.c. converters 57 Transformer behaviour with pulse-width modulated waveforms 58 Current inrush in suddenly-excited transformers 62 Transformer temperature rise - a possible cooldown 64 High efficiency and high power factors are fine, but don't forget the utilization factor 66

Practical Transformer Handbook

This Section covers the design of power trans- formers used in buck-derived topologies: forward converter, bridge, half-bridge, and full-wave center-tap. Flyback transformers (actually coupled induc- tors) are covered in a later Section. For more spe- cialized applications, the principles discussed herein will generally apply.

Magnetics Design Handbook - Texas Instruments

converters, input filter design, current, rotary, planar, autotransformer and saturable (magnetic amplifier) transformer design, winding capacitance, leakage inductance, and a chapter titled "Derivations for the Design Equations." The book contains much practical information as a handbook but seems to belong in the 1970s.

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Written as a companion to Transformer and Inductor Design Handbook (second ed), this work compiles the specifications of over 12,000 industrially available cores and brings them in line with standard units of measurement, simplifying the selection of core configurations for the design of magnetic components.

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