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intermediate level 02 -
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& How Does it
Work? (Step-Up &
Step-Down Transformer

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Section 5 Design

limitations: The most important limiting factors in inductor design are (a) temperature rise and efficiency considerations arising from core losses and ac and dc winding losses, and (b) core saturation.

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'Magnetics Design 5 -
Inductor and Flyback
Transformer Design'
Section 5 Filter

inductors, boost
inductors and flyback
transformers are all
members of the "power
inductor" family. They
all function by taking
energy from the
electrical circuit, storing
it in a magnetic field,
and subsequently

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returning this energy
(minus losses) to the
circuit.

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Design considerations
for this family of
inductors vary widely
depending on the type

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of circuit applica-tion and such factors as operating frequency and ripple current Inductor applications in switching power supplies can be defined as follows (see Fig

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Transformer Design
Magnetics® Inductor
Design software is an
aid to assist design
engineers in selecting
the optimum powder
core for inductor
applications,
specifically in switch-
mode power supply
(SMPS) output filters,
also known as DC
Inductors.

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Inductor Design

software is an aid to assist design engineers in selecting the optimum powder core for inductor applications, specifically in switch-mode power supply (SMPS) output filters, also known as DC Inductors.

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Section 5 Design
limitations: The most
important limiting
factors in inductor
design are (a)
temperature rise and
efficiency
considerations arising

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from core losses and ac
and dc winding losses,
and (b) core saturation.

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Transformer Design
Magnetics Designer
produces a complete
transformer or inductor
design based upon
electrical specifications,
including a winding
sheet report and a

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SPICE-compatible model with parasitics. A database with thousands of cores, wide variety of materials and wire is included, including a non-linear saturable core SPICE model.

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Inductor Design and ...
What is magnetic
builder (Inductor and

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Transformer design tool)? Top Click here to try Online Magnetics Builder (design tool) now. Magnetic Builder is a useful magnetic design software. It is a tool for user to create his/her own magnetic component (inductor and transformer) by selecting different ferrite core, bobbin type and winding method.

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will be automatically
produced ...

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Magnetics offers a
number of inductor and
transformer design tools
and literature to assist
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their Magnetics
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design questions.

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Flux, 75 Series, XFlux

®, and Kool M μ ®

MAX powder cores, this

design utility aids in

core selection for DC

output inductors, input

chokes, PFC (Power

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Factor Correction)

inductors, high current
inductors, and other
energy storage devices.

Design inputs include
DC current, ripple
current, full load and no
load inductances, and
more.

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Tools

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Design software is an
aid to assist design
engineers in selecting
the optimum powder
core for inductor
applications,
specifically in switch-
mode power supply
(SMPS) output filters,
also known as DC
Inductors. As this name
implies, most of the

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current flowing ...

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Flyback Inductor And Flyback

Transformer Design

Magnetics Design LLC

was founded to provide
professional consulting
related services

regarding transformers
and inductors. With our
engineers with 40 years
designing and
manufacturing

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experience gained in Europe, US and China, Magnetics Design LLC has been successfully assisting our customers with their achievements in utility, power, and offshore industries.

Magnetics Design LLC-
Transformer / Inductor
Specialist

A selection of different
inductor types. Image

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courtesy of FDominec
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analyze these methods,
an equivalent magnetic
circuit of the inductor is
modeled and the
relationship between
various components is
studied. The design of
inductors is governed by
electrical, mechanical,
and thermal
requirements.

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Fundamentals of Power
Electronics Chapter 14:

Inductor design 1

Chapter 14 Inductor

Design 14.1 Filter

inductor design

constraints 14.2 A step-

by-step design

procedure 14.3 Multiple-

winding magnetics

design using the K_g

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method 14.4 Examples

14.5 Summary of key
points

Chapter 14 Inductor
Design

The power electronics engineer must not only model and design the converter, but must model and design the magnetics as well.

Modeling and design of magnetics for switching

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converters is the topic of this course. In this module, basic magnetics theory is reviewed, including magnetic circuits, inductor modeling, and transformer modeling.

Magnetics for Power
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CAD program that helps engineers create transformers and inductors and generate the SPICE model with the aid of a wizard for introducing basic parameters and ...

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design example; Planar

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magnetic design
example; PFC inductor
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magnetic and electric
circuits (inductor
example). Link to
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Inductor design 18 14.3

Multiple-winding
magnetics design using
the Kg method The Kg
design method can be
extended to multiple-
winding magnetic

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elements such as

transformers and
coupled inductors.

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Modeling and Control
of Power Electronic
Converters for
Microgrid Applications

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Transformer
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Magnetic Devices
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