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Fundamentals of Power
Electronics - Buck Converter
Critical Inductance Value

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~~ElectronicBits#22 - HF Power~~

~~Inductor Design High~~

~~frequency Power Inductor~~

~~Design: DC \u0026 AC Power~~

~~Electronics — 5.4.3 — Filter~~

~~Inductor Design How~~

~~INDUCTOR's work \u0026 How~~

~~to make your own~~

~~Mod-04 Lec-05 InductorEnergy~~

~~Stored in an Inductor DIY~~

~~2400W SMPS Inductor Design:~~

~~You can do this! 8.02x -~~

~~Lect 20 - Inductance, RL~~

~~Circuits, Magnetic Field~~

~~Energy Inductors and~~

~~Inductance Induction Heater~~

~~- 6\" Coil vs. 1/2\" bar~~

~~How to making inductor part~~

~~2 (Ferrite \u0026 Iron powder~~

~~toroid cores) 8.02x - Lect~~

~~16 - Electromagnetic~~

~~Induction, Faraday's Law,~~

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Lenz Law, SUPER DEMO How
Inductors Work Within a
Circuit - Inductance **SMPS**

**Tutorial (5): Inductor
Basics, Magnetic Circuits,
Switched Mode Power Supplies**

#90: Measure Capacitors and
Inductors with an
Oscilloscope and some basic
parts

Inductive spiking, and how
to fix it!~~How to choose the
right coil type (inductor)?!~~
~~What is Inductance? The 3
Effects of Inductors - The
2 Minute Guru (s2e9)~~
[Webinar] - Inductor Design
for Power Electronics
Applications Using EMS
~~Coupled Inductor Basics~~ The
\"Power-Inductor Checker\":

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Magic of Magnetism \u0026

Inductors

(ElectroBOOM101-007) Basics
of coupled inductors in

power supplies How to

decrease inductor size in a

10A DC/DC converter design

How to Design a Coil for

Specific Inductance **Würth**

Elektronik Webinar: How do I

select the right inductor

for a DC/DC converter

design?

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IEEE TRANSACTIONS ON POWER

ELECTRONICS, VOL. 14, NO. 4,

JULY 1999 709 Design of

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Luca Daniel, Student Member,

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IEEE, Charles R. Sullivan,
Member, IEEE, and Seth R.
Sanders, Member, IEEE

Abstract—Possible
configurations for
microfabricated inductors
are considered. Inductance
can be set by adjusting perme-

Design of microfabricated
inductors - Power
Electronics ...

603-646-2851 <http://engineering.dartmouth.edu/inductor/>
Abstract— Microfabricated
inductor designs are
proposed for converters for
microprocessor power
delivery. The fabrication
process uses anisotropic

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silicon etching to form V-grooves; granular metal/insulator nanoscale composite magnetic materials; and cop-per conductors.

Design of Microfabricated
Inductors for Microprocessor

...

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Inductors for Microprocessor
Power Delivery G J Mehas K D
Coonley C R Sullivan Found
in IEEE Applied Power
Electronics Conference, Mar
1999, pp 1181-1187 °c ...

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Electronics Conference, Mar
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Design of microfabricated
inductors - Power
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Microfabricated inductor
designs are proposed for
convertersfor

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microprocessor power delivery. The fabrication process uses anisotropic silicon etching to form V-grooves; granular metal/insulator nanoscale composite magnetic materials; and cop-per conductors.

Design Of Microfabricated Inductors Power Electronics
Abstract: Possible configurations for microfabricated inductors are considered. Inductance can be set by adjusting permeability through control of anisotropy of a permalloy core or via a patterned quasi-distributed gap. A

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Power Electronics design methodology based on a simple model is proposed. A more accurate model and a numerical optimization are also developed.

Design of microfabricated
inductors - IEEE Journals &
Magazine

Design of microfabricated
inductors for microprocessor
power delivery by G J Mehas
, K D Coonley , C R Sullivan
, Gustavo J Mehas , Kip D
Coonley , Charles R Sullivan
- in IEEE Applied Power
Electronics Conf.
Proceedings , 1999

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Design of Microfabricated
Inductors

Abstract: Transformers and inductors fabricated with micron-scale magnetic-alloy and copper thin films are designed for high-frequency power conversion applications. Fine patterning produced by photolithography reduces eddy current losses, thus enabling very high power densities.

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Design Of Microfabricated Inductors Power Electronics Possible configurations for microfabricated inductors are considered. Inductance can be set by adjusting permeability through control of anisotropy of a permalloy core, or via a patterned quasi-distributed gap. A design methodology based on a simple model is proposed. Analysis of secondary effects is also developed. A

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Design example for a 5 MHz buck power converter application is presented.

Design of microfabricated inductors | Semantic Scholar
Nov 2, 2012 - Contact mask layout for microfabricated inductors with thin-film magnetic cores. These magnetic components will be used for high-efficiency integrated power converters in LED lighting systems. Image courtesy of Ph.D. candidate Dan Harburg, working under advisor Professor Victor Petrenko. Submitted as part of the ...

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Transformers and inductors fabricated with micronscale magnetic-alloy and copper thin films are designed for high-frequency power conversion applications. Fine patterning produced by photolithography reduces eddy current losses, thus enabling very high power densities. Calculated design graphs and ...

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Inductors Power Electronics
We are developing high-
frequency (8 MHz) power
inductors fabricated by thin-
film deposition and
photolithography. They are
described in " Design of

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Microfabricated Inductors for Microprocessor Power Delivery " and " Converter and Inductor Design for Fast-Response Microprocessor Power Delivery ", and in the first and second papers titled "Fabrication of Thin-Film V-Groove Inductors Using Composite Magnetic Materials."

Publications from Dartmouth
Magnetic Component and Power

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inductors for microprocessor

...

Design equations and closed-form expressions for losses are presented. Special design considerations for the key dynamic voltage scaling enabler, called the dynamic DC-DC converter are given. The focus throughout is on low-power portable applications, where small size, low cost, and high energy efficiency are the primary design objectives.

Design of microfabricated
transformers and inductors

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Nov 14, 2012 - Contact mask layout for microfabricated inductors with thin-film magnetic cores. These magnetic components will be used for high-efficiency integrated power converters in LED lighting systems. Image courtesy of Ph.D. candidate Dan Harburg, working under advisor and Professor

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