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Research in Progress:

Microfabricated Inductors A deeper look at the approximate design of power inductors with gapped ferrite cores Power Electronics -Inductors

Fundamentals of Power Electronics - Buck Converter Critical Inductance Value ElectronicBits#22 - HF Power Inductor Design High frequency Power Inductor Design: DC \u0026

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~~AC Power Electronics - 5.4.3 -~~

~~Filter Inductor Design How
INDUCTOR's work \u0026amp; How to
make your own~~

~~Mod-04 Lec-05 Inductor Energy
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 \u0026amp; Iron powder
toroid cores) 8.02x - Lect 16 -
Electromagnetic Induction,
Faraday's Law, Lenz Law, SUPER
DEMO How Inductors Work Within
a Circuit - Inductance SMPS
Tutorial (5): Inductor Basics,
Magnetic Circuits, Switched Mode
Power Supplies~~

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#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\": A tester for power-inductors~~

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 W\u00fcrth Elektronik Webinar: How do I

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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

Microfabricated Inductors Luca

Daniel, Student Member, 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-

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inductors - Power Electronics ...

603-646-2851 [http://engineering.](http://engineering.dartmouth.edu/inductor/)

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Abstract—Microfabricated inductor designs are proposed for converters for microprocessor power delivery. The fabrication process uses anisotropic silicon etching to form V-grooves; granular metal/insulator nanoscale composite magnetic materials; and copper conductors.

Design of Microfabricated Inductors for Microprocessor ...
Design of Microfabricated 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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The fabrication process uses anisotropic silicon etching to form V-grooves; granular metal/insulator nanoscale composite magnetic materials; and copper 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 design methodology based on a simple model is proposed. A more accurate model and a numerical optimization are also developed.

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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

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Power Electronics applications. Fine patterning produced by photolithography reduces eddy current losses, thus enabling very high power densities.

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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 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.

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candidate Dan Harburg, working under advisor Professor Victor Petrenko. Submitted as part of the ...

Microfabricated inductors |
Inductors, Power converters ...
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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Power Transformers and Inductors for ...

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We are developing high-frequency
(8 MHz) power inductors

fabricated by thin-film deposition
and photolithography. They are
described in " Design of

Microfabricated Inductors for

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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 for ...

Nov 14, 2012 - Contact mask layout for microfabricated inductors with thin-film magnetic cores. These magnetic components will be used for high-

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Power Electronics
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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