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

Design of Microfabricated Inductors for Microprocessor ...
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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.

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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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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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 microscale 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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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 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."

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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-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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