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

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delivery. The
fabrication process
uses anisotropic
silicon etching to
form V-grooves;
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Abstract—

Microfabricated inductor designs are proposed for converters for microprocessor power delivery. The fabrication process uses anisotropic

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

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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

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model is proposed. A more accurate model and a numerical optimization are also developed.

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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

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by adjusting
permeability through
control of anisotropy
of a permalloy core,
or via a patterned

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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.

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dynamic DC-DC
converters are given.
The focus throughout
is on low-power
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where small size, low
cost, and high energy
efficiency are the
primary design
objectives.

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