

## Section 5 Inductor and Flyback Transformer Design

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 returning this energy (minus losses) to the circuit. A flyback transformer is actually a multi-winding coupled inductor, unlike the true transformer discussed in Section 4, whose energy storage is indefinitely.

### Application Considerations

Design considerations for this family of inductors vary widely, depending on the type of circuit application and such factors as operating frequency and ripple current.

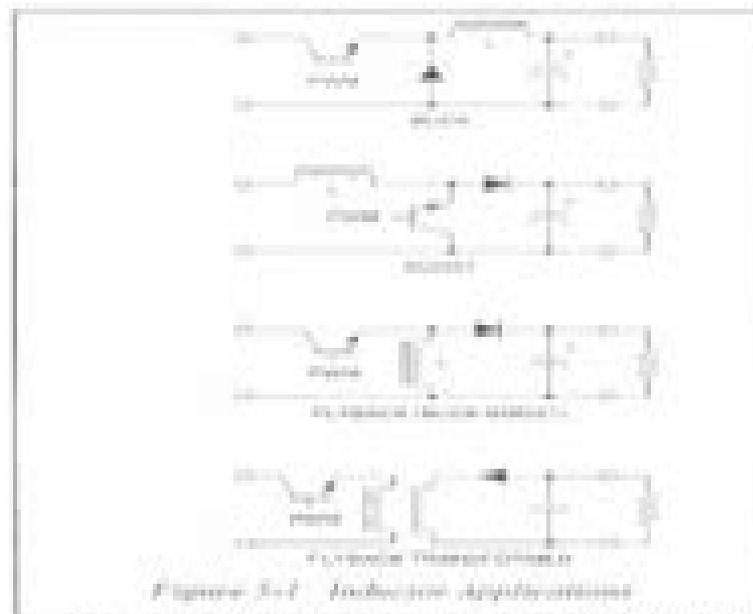
Inductor applications in switching power supplies can be defined as follows (see Fig. 5-1):

- *Single winding inductors:*
  - Output filter inductor (buck-derived)
  - Boost inductor
  - Flyback (buck-derived) inductor
  - Input filter inductor
- *Multiple winding inductors:*
  - Coupled output filter inductor<sup>(1)</sup>
  - Flyback transformer

Inductor design also depends greatly on the inductor current operating mode (Figure 5-2):

- *Discontinuous inductor current mode*, when the instantaneous temperature (limited in all voltage ripples) does not rise for a portion of each switching period.
- *Continuous inductor current mode*, in which the total temperature does not dwell at zero (although the current may pass through zero).

In the continuous current mode, the ripple current is often small enough that no winding loss and no core loss may be significant, but in the discontinuous mode, no losses may dominate.



**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.

**Output filter inductor (buck-derived)**—single and multiple windings are seldom operated in the discontinuous current mode because of the added burden this places on the output filter capacitor, and because it results in poor cross-regulation in multiple output supplies. Typically operated in the continuous mode with peak peak ripple current much smaller than full load current, ac winding loss is usually not significant compared to dc loss.

# Magnetics Design 5 Inductor And Flyback Transformer Design

**Siddappa N.Byrareddy**



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**Fundamentals of Power Electronics** Robert W. Erickson, Dragan Maksimovic, 2007-05-08 Fundamentals of Power Electronics Second Edition is an up to date and authoritative text and reference book on power electronics This new edition retains the original objective and philosophy of focusing on the fundamental principles models and technical requirements needed for designing practical power electronic systems while adding a wealth of new material Improved features of this new edition include A new chapter on input filters showing how to design single and multiple section filters Major revisions of material on averaged switch modeling low harmonic rectifiers and the chapter on AC modeling of the discontinuous conduction mode New material on soft switching active clamp snubbers zero voltage transition full bridge converter and auxiliary resonant commutated pole Also new sections on design of multiple winding magnetic and resonant inverter design Additional appendices on Computer Simulation of Converters using averaged switch modeling and Middlebrook's Extra Element Theorem including four tutorial examples and Expanded treatment of current programmed control with complete results for basic converters and much more This edition includes many new examples illustrations and exercises to guide students and professionals through the intricacies of power electronics design Fundamentals of Power Electronics Second Edition is intended for use in introductory power electronics courses and related fields for both senior undergraduates and first year graduate students interested in converter circuits and electronics control systems and magnetic and power systems It will also be an invaluable reference for professionals working in power electronics power conversion and analogue and digital electronics

*Magnetic Components for Power Electronics* Alex Goldman, 2012-12-06 Magnetic Components for Power Electronics concerns the important considerations necessary in the choice of the optimum magnetic component for power electronic applications These include the topology of the converter circuit the core material shape size and others such as cost and potential component suppliers These are all important for the design engineer due to the emergence of new materials changes in supplier management and the examples of several component choices Suppliers using this volume will also understand the needs of designers Highlights include Emphasis on recently introduced new ferrite materials such as those operating at megahertz frequencies and under higher DC drive conditions Discussion of amorphous and nanocrystalline metal materials New technologies such as resonance converters power factors correction PFC and soft switching Catalog information from over 40 magnetic component suppliers Examples of methods of component choice for ferrites amorphous nanocrystalline materials Information on suppliers management changes such as those occurring at Siemens Philips Thomson and Allied Signal Attention to the increasingly important concerns about EMI This book should be especially helpful for power electronic circuit designers technical executives and material science engineers involved with power electronic components

**Analog Circuit Design** Bob Dobkin, Jim Williams, 2011-09-26 Analog circuit and system design today is more essential than ever before With the growth of digital systems wireless communications complex industrial and automotive

systems designers are challenged to develop sophisticated analog solutions This comprehensive source book of circuit design solutions will aid systems designers with elegant and practical design techniques that focus on common circuit design challenges The book s in depth application examples provide insight into circuit design and application solutions that you can apply in today s demanding designs Covers the fundamentals of linear analog circuit and system design to guide engineers with their design challenges Based on the Application Notes of Linear Technology the foremost designer of high performance analog products readers will gain practical insights into design techniques and practice Broad range of topics including power management tutorials switching regulator design linear regulator design data conversion signal conditioning and high frequency RF design Contributors include the leading lights in analog design Robert Dobkin Jim Williams and Carl Nelson among others

**CMOS Analog Circuit Design** Phillip E. Allen, Douglas R. Holberg, 2011 A textbook for 4th year undergraduate first year graduate electrical engineering students

**Switch-Mode Power Supplies Spice Simulations and Practical Designs** Christophe Basso, 2008-01-14 Harness Powerful SPICE Simulation and Design Tools to Develop Cutting Edge Switch Mode Power Supplies Switch Mode Power Supplies SPICE Simulations and Practical Designs is a comprehensive resource on using SPICE as a power conversion design companion This book uniquely bridges analysis and market reality to teach the development and marketing of state of the art switching converters Invaluable to both the graduating student and the experienced design engineer this guide explains how to derive founding equations of the most popular converters design safe reliable converters through numerous practical examples and utilize SPICE simulations to virtually breadboard a converter on the PC before using the soldering iron Filled with more than 600 illustrations Switch Mode Power Supplies SPICE Simulations and Practical Designs enables you to Derive founding equations of popular converters Understand and implement loop control via the book exclusive small signal models Design safe reliable converters through practical examples Use SPICE simulations to virtually breadboard a converter on the PC Access design spreadsheets and simulation templates on the accompanying CD ROM with numerous examples running on OrCAD ICAPS Cap TINA and more Inside This Powerful SPICE Simulation and Design Resource Introduction to Power Conversion Small Signal Modeling Feedback and Control Loops Basic Blocks and Generic Models Simulation and Design of Nonisolated Converters Simulation and Design of Isolated Converters Front End Rectification and Power Factor Correction Simulation and Design of Isolated Converters The Flyback Simulation and Design of Isolated Converters The Forward

Performance of High-Frequency High-Flux Magnetic Cores at Cryogenic Temperatures, 2002

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