

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⁽¹⁾
 - 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.

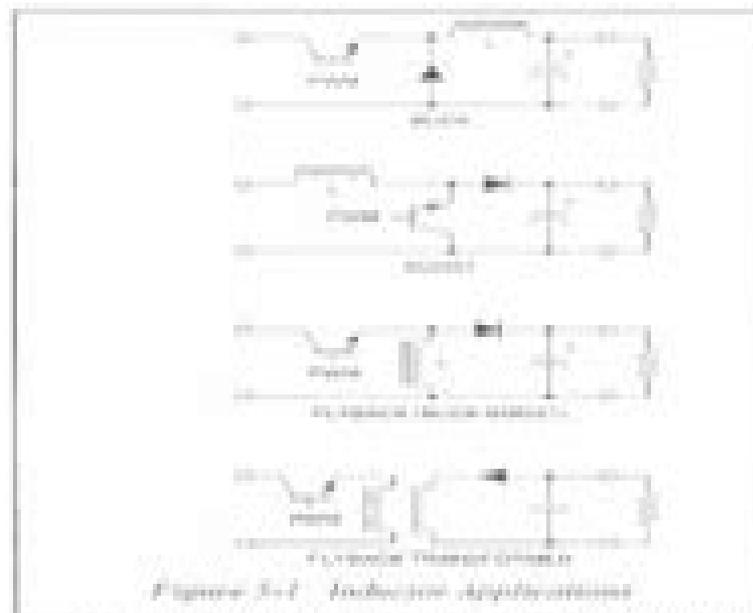


Figure 5-1 Inductor Applications

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

Phillip E. Allen, Douglas R. Holberg



Magnetics Design 5 Inductor And Flyback Transformer Design:

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

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

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Transformer and Inductor Design Handbook Colonel Wm. T. McLyman, 2017-12-19 With its practical approach to design Transformer and Inductor Design Handbook Fourth Edition distinguishes itself from other books by presenting information and guidance that is shaped primarily by the user s needs and point of view Expanded and revised to address recent industry developments the fourth edition of this classic reference is re organized and improved again serving as a constant aid for anyone seeking to apply the state of the art in transformer and inductor design Carefully considering key factors such as overall system weight power conversion efficiency and cost the author introduces his own new equation for the power handling ability of the core intended to give engineers faster and tighter design control The book begins by providing the basic fundamentals of magnetics followed by an explanation of design using the Kg or Ap techniques It also covers subjects such as laminations tape cores powder cores and ferrites and iron alloys In addition new topics include Autotransformer design Common mode inductor design Series saturable reactor design Self saturating magnetic amplifier Designing inductors for a given resistance With the goal of making inductors that are lighter and smaller but still meet requirements this book helps users avoid many antiquated rules of thumb to achieve a better more economical design Presenting transformer design examples with step by step directions and numerous tables and graphics for comparison it remains a trusted guide for the engineers technicians and other professionals who design and evaluate transformers and inductors It also serves as an ideal primer for students illustrating the field for them from the ground up

Design of Solid-State Power Supplies Eugene R. Hnatek, 1989-09-21 Power supply topologies Switching supply design hints Transformer and inductor design Power switch considerations IC voltage regulators and power supply ICs Magnetic amplifiers Electromagnetic compatibility Converter and inverter design considerations and examples

Conference Proceedings 1988, 1988 *Switch-Mode Power Supplies, Second Edition* Christophe P. Basso, 2014-06-04 THE LATEST SPICE SIMULATION AND DESIGN TOOLS FOR CREATING STATE OF THE ART SWITCHMODE POWER SUPPLIES Fully updated to incorporate new SPICE features and capabilities this practical guide explains step by step how to simulate test and improve switch mode power supply designs Detailed formulas with founding equations are included Based on the author s continued research and in depth handson work in the field this revised resource offers a collection of the latest SPICE solutions to the most difficult problem facing power supply designers creating smaller more heat efficient power supplies in shorter design cycles NEW to this edition Complete analysis of rms currents for the three basic cells in CCM and DCM PWM switch at work in the small signal analysis of the DCM boost and the QR flyback OTA

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Analysis and Design of a Digitally Controlled Current Source Based Multi-output Converter Sombuddha Chakraborty, 2006 *Electronic Design's Gold Book*, 1987 **Power Electronics and Applications**, 1993 **Thomas Register of American Manufacturers**, 2002 This basic source for identification of U S manufacturers is arranged by product in a large multi volume set Includes Products services Company profiles and Catalog file [Transformer and Inductor Design Handbook, Third Edition](#) Colonel Wm. T. McLyman, 2004-03-31 Extensively revised and expanded to present the state of the art in the field of magnetic design this third edition presents a practical approach to transformer and inductor design and covers extensively essential topics such as the area product A_p and core geometry K_g The book provides complete information on magnetic materials and core characteristics using step by step design examples and presents all the key components for the design of lightweight high frequency aerospace transformers or low frequency commercial transformers Written by a specialist with more than 47 years of experience in the field this volume covers magnetic design theory with all of the relevant formulas **Thomas Register of American Manufacturers and Thomas Register Catalog File**, 1997 Vols for 1970 71 includes manufacturers catalogs **Electrical Design News**, 1988 **Northcon/94**, 1994 **Intelec 16th International Telecommunications Energy Conference** IEEE Power Electronics Society, 1994

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