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New York: McGraw-Hill, 1989.
680 p. ISBN 0-07-005330-8.
The leading hands-on guide in this rapidly expanding area of electronics, Keith Billings revision of the Switchmode Power Supply Handbook brings additional state-of-the-art techniques and developments to engineers at all levels. Offering...

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The power supply industry dates back to the early 1920s, when crude devices were first developed to serve as "B" battery eliminators to power radios

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in both the commercial and consumer markets. The market for separate power supplies evaporated around 1929, when most radios manufactured included a built-in power supply.

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1.1.2 The supply of electricity and electrical

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installation practices are governed by the Electricity Act and its subsidiary legislation. 1.1.3

“Customer” and “consumer” shall have the same meaning in this handbook. 1.2

Connection Voltages and Supply Frequency

~~How to Apply For Electricity Connection~~

1) The Power Supply Handbook; By The Editors of 73 Magazine; Hardbound Book, 1979, 418 pages; The book is in good condition inside with cover rubs. 2)

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Switchmode Power Supply Handbook, third edition is a thorough revision of the industry-leading resource for power supply designers. New design methods required for powering small, high-performance electronic devices are presented. Based on the authors' decades of experience, the book is filled with real-world solutions and many nomograms, and features

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simplified theory and mathematical analysis. This comprehensive volume explains common requirements for direct operation from the AC line supply and discusses design, theory, and practice. Engineering requirements of switchmode systems and recommendations for active power factor correction are included. This practical guide provides you with a working knowledge of the latest topologies along with step-by-step approaches to component decisions to achieve reliable and cost-effective power supply designs. Switchmode Power Supply Handbook, third

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edition covers: Functional requirements of direct off-line switchmode power supplies Power components selection and transformer designs for converter circuits Transformer, choke, and thermal design Input filters, RFI control, snubber circuits, and auxiliary systems Active power factor correction system design Worked examples of would components Examples of fully resonant and quasi-resonant systems A resonant inverter fluorescent ballast An example of high-power phase shift modulated system A new MOSFET resonant inverter drive scheme A single-

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control, wide-range wave oscillator

The World's #1 Guide to Power Supply Design Now Updated! Recognized worldwide as the definitive guide to power supply design for over 25 years, *Switching Power Supply Design* has been updated to cover the latest innovations in technology, materials, and components. This Third Edition presents the basic principles of the most commonly used topologies, providing you with the essential information required to design cutting-edge power

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Fundamental Switching
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* Half- and Full-Bridge
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Flyback Converter Topologies
* Current-Mode and Current-
Fed Topologies *
Miscellaneous Topologies *
Transformer and Magnetics
Design * High-Frequency
Choke Design * Optimum Drive
Conditions for Bipolar Power
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Transistors, and IGBTs *
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* Turn-on, Turn-off
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Loop Stabilization *
Resonant Converter Waveforms

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* Power Factor and Power Factor Correction * High-Frequency Power Sources for Fluorescent Lamps, and Low-Input-Voltage Regulators for Laptop Computers and Portable Equipment

Power Supply Cookbook, Second Edition provides an easy-to-follow, step-by-step design framework for a wide variety of power supplies. With this book, anyone with a basic knowledge of electronics can create a very complicated power supply design in less than one day. With the common industry design approaches

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presented in each section, this unique book allows the reader to design linear, switching, and quasi-resonant switching power supplies in an organized fashion. Formerly complicated design topics such as magnetics, feedback loop compensation design, and EMI/RFI control are all described in simple language and design steps. This book also details easy-to-modify design examples that provide the reader with a design template useful for creating a variety of power supplies. This newly revised edition is a practical, "start-to-finish" design reference. It is organized to allow both

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seasoned and inexperienced engineers to quickly find and apply the information they need. Features of the new edition include updated information on the design of the output stages, selecting the controller IC, and other functions associated with power supplies, such as: switching power supply control, synchronization of the power supply to an external source, input low voltage inhibitors, loss of power signals, output voltage shut-down, major current loops, and paralleling filter capacitors. It also offers coverage of waveshaping techniques, major loss

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reduction techniques, snubbers, and quasi-resonant converters. Guides engineers through a step-by-step design framework for a wide variety of power supplies, many of which can be designed in less than one day Provides easy-to-understand information about often complicated topics, making power supply design a much more accessible and enjoyable process

This comprehensive book focuses on DC-DC switching power supply circuits, which are receiving attention as a key technology in green IT, especially in the automotive and consumer electronics

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industries. It covers buck converters, isolated converters, PFC converters, their modeling and analysis, several control methods, passive components, and their several recent applications (on-chip power supplies, DC-DC and AC-DC converter applications, single-inductor multi-output DC-DC converters, energy harvest applications, wireless power delivery, charge pump circuits, and power amplifiers). The contents are well balanced as the authors are from both academia and industry and include pioneers and inventors of hysteretic PWM control.

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This book describes the fundamentals and principles of energy harvesting and provides the necessary theory and background to develop energy harvesting power supplies. It explains the overall system design and gives quantitative assumptions on environmental energy. It explains different system blocks for an energy harvesting power supply and the trade-offs. The text covers in detail different energy transducer technologies such as piezoelectric, electrodynamic, and thermoelectric generators and solar cells from the

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material to the component level and explains the appropriate power management circuits required in these systems. Furthermore, it describes and compares storage elements such as secondary batteries and supercapacitors to select the most appropriate one for the application. Besides power supplies that use ambient energy, the book presents systems that use electromagnetic fields in the radio frequency range. Finally, it discusses different application fields and presents examples of self-powered electronic systems to illustrate the content of the preceding

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chapters.

Chapter 1: The Principles of Switching Power Conversion

Chapter 2: DC-DC Converter Design and Magnetics

Chapter 3: Off-line Converter Design and Magnetics

Chapter 4: The Topology FAQ

Chapter 5: Optimal Core Selection

Chapter 6: Component Ratings, Stresses, Reliability and Life

Chapter 7: Optimal Power Components Selection

Chapter 8: Conduction and Switching Losses

Chapter 9: Discovering New Topologies

Chapter 10: Printed Circuit Board Layout

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and Stability Chapter 13: Paralleling, Interleaving and Sharing Chapter 14: The Front-End of AC-DC Power Supplies Chapter 15: DM and CM Noise in Switching Power Supplies Chapter 16: Fixing EMI across the Board Chapter 17: Input Capacitor and Stability Chapter 18: The Math behind the Electromagnetic Puzzle Chapter 19: Solved Examples Appendix A.

Unarguably the leading hands-on guide in this rapidly expanding area of electronics, Keith Billings' new revision of his Switchmode Power Supply Handbook brings state-of-the-

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any page, and you'll find cutting-edge design expertise on electronic ballast, power factor correction, new thermal management techniques, transformers, chokes, input filters, EMI control, converters, snubber circuits, auxiliary systems, and much more. The most comprehensive book on power supply design available anywhere, Switchmode Power Supply Handbook is the industry standard, now fully updated for the 21st century.

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