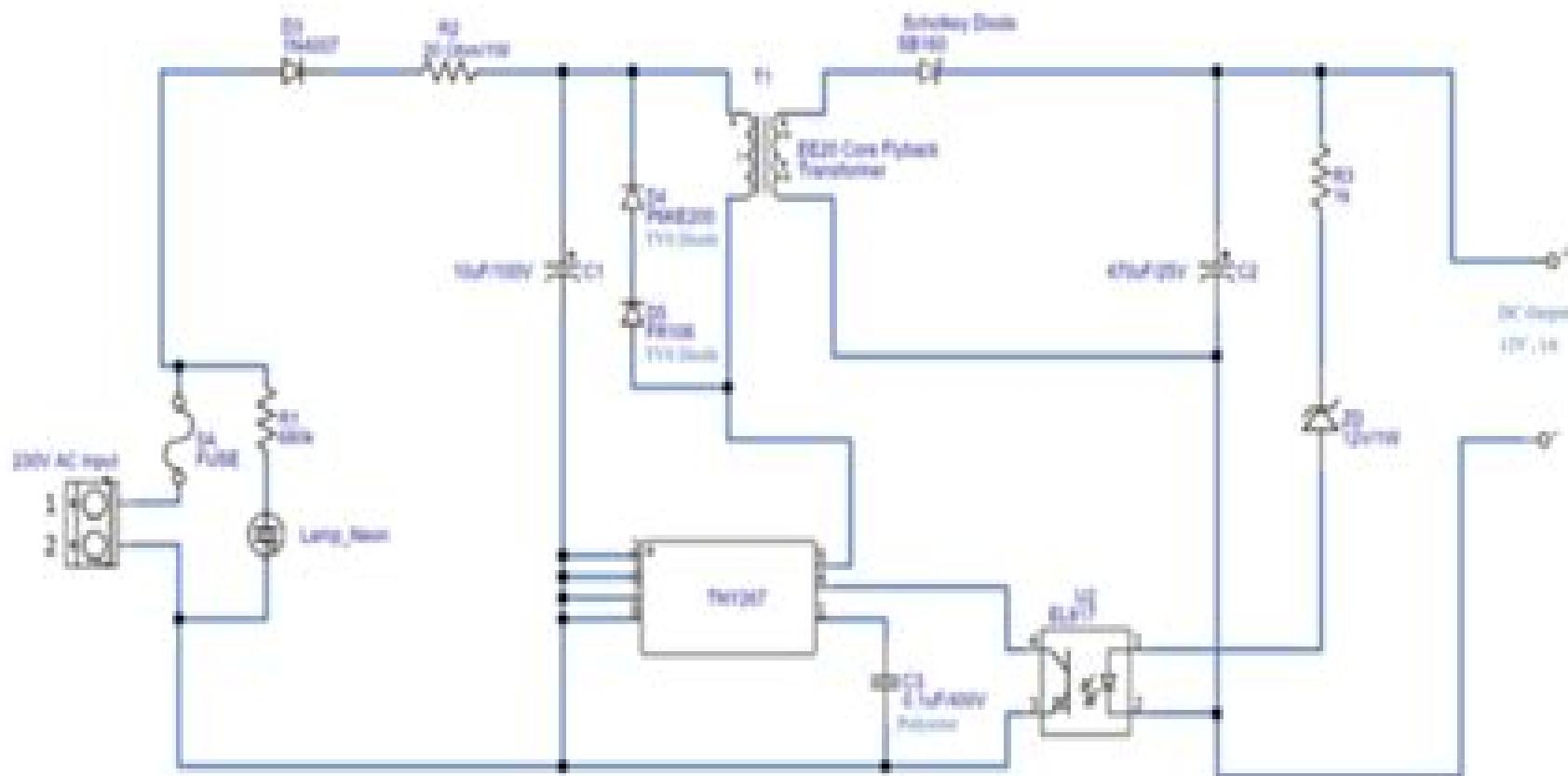


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Designing And Implementation Of Smps Circuits

Xiaolong Qi

Designing And Implementation Of Smps Circuits:

Design and Implementation of SMPS Circuit Using PWM Concepts , Switched Mode Power Supply SMPS is the most prevailing architecture for DC power supply in modern systems primarily for its capability to handle variable loads Apart from efficiency the size and weight of the power supplies is becoming a great area of concern for the Power Supply Designers In this thesis an AC to DC converter SMPS circuit having a power MOSFET for switching operation and a PWM based Feedback circuit for driving the switching of the MOSFET is designed and simulated in NI MULTISIM circuit design environment Further the same circuit is Hardware implemented and tested using NI ELVIS Suite In this design the line voltage at 220V 50Hz is taken as input this voltage is stepped down rectified and passed through filter capacitor to give an unregulated DC voltage This unregulated voltage is chopped using a MOSFET switch driven by PWM feedback signal to control the output voltage level An Isolation Transformer is used to isolate the DC output from input supply The transformer output is again rectified by the high frequency Diode bridge rectifier and is filtered using a capacitor to give the regulated DC output A Voltage regulator is connected to give the precise voltage output The feedback network generates a high frequency PWM signal to drive the MOSFET switch The dc voltage at the output depends on the width of the switching pulse The pulse width is varied with the changes in the DC output voltage level this change in the pulse width cancels the output voltage change and the SMPS output remains constant irrespective of load variations

Optimal Design of Switching Power Supply Zhanyou Sha,Xiaojun Wang,Yanpeng Wang,Hongtao Ma,2015-09-15 A contemporary evaluation of switching power design methods with real world applications Written by a leading author renowned in his field Focuses on switching power supply design manufacture and debugging Switching power supplies have relevance for contemporary applications including mobile phone chargers laptops and PCs Based on the authors successful Switching Power Optimized Design 2nd Edition in Chinese Highly illustrated with design examples of real world applications

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Table of Contents Designing And Implementation Of Smps Circuits

1. Understanding the eBook Designing And Implementation Of Smps Circuits
 - The Rise of Digital Reading Designing And Implementation Of Smps Circuits
 - Advantages of eBooks Over Traditional Books
2. Identifying Designing And Implementation Of Smps Circuits
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Designing And Implementation Of Smps Circuits
 - User-Friendly Interface
4. Exploring eBook Recommendations from Designing And Implementation Of Smps Circuits
 - Personalized Recommendations
 - Designing And Implementation Of Smps Circuits User Reviews and Ratings
 - Designing And Implementation Of Smps Circuits and Bestseller Lists
5. Accessing Designing And Implementation Of Smps Circuits Free and Paid eBooks
 - Designing And Implementation Of Smps Circuits Public Domain eBooks
 - Designing And Implementation Of Smps Circuits eBook Subscription Services
 - Designing And Implementation Of Smps Circuits Budget-Friendly Options

6. Navigating Designing And Implementation Of Smps Circuits eBook Formats
 - ePUB, PDF, MOBI, and More
 - Designing And Implementation Of Smps Circuits Compatibility with Devices
 - Designing And Implementation Of Smps Circuits Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Designing And Implementation Of Smps Circuits
 - Highlighting and Note-Taking Designing And Implementation Of Smps Circuits
 - Interactive Elements Designing And Implementation Of Smps Circuits
8. Staying Engaged with Designing And Implementation Of Smps Circuits
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Designing And Implementation Of Smps Circuits
9. Balancing eBooks and Physical Books Designing And Implementation Of Smps Circuits
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Designing And Implementation Of Smps Circuits
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Designing And Implementation Of Smps Circuits
 - Setting Reading Goals Designing And Implementation Of Smps Circuits
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Designing And Implementation Of Smps Circuits
 - Fact-Checking eBook Content of Designing And Implementation Of Smps Circuits
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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