

RIDLEY WEBINAR SERIES: 8



Career Day
Happy Hour

Webinar October 8, 2020 3 pm PDT

Dr. Ray Ridley

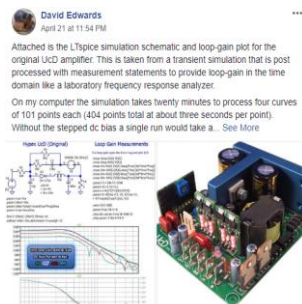
Ridley Engineering

Mentoring

Can you talk about your mentees and the ways in which you help them in their careers, and about your mentors?

Is there any mentorship programs or experienced individuals interested in providing guidance?

I'm starting a career in PE as a developer eng. big supplier . in long term I want to run my own business. I need some advice.



**Power Supply Design Center
Facebook Group**



Mentors + Advocates:
How to be one + How to find one

Join the discussion on Wednesday, October 14

Jobs/Careers in Power Electronics

I recently completed my MSc in Power Electronics. Although working as elect. design eng. Should I change jobs going in Power elc

I am Power Electronics Student soon be graduating, what advice will you give to new graduate to become successful?

Which companies are good to work for? How is the salary stacking up against other electronics engineers?

After Masters, which would be better option: taking up PhD position or joining Industry as an R&D engineer?

What are the chances of getting a design job after masters in power electronics with no experience?

How rewarding, financially, is a career in Power Electronics vs other career avenues available to the electrical engineer?

Research in Power Electronics

Good PhD topics to work on.

Are there still research topics that may be of huge impact in our industry?

What topics does industries like to adapt from research of a PhD student?

What is R&D area in power electronic system design that has good scope as product in future

Power Electronics Industry Direction

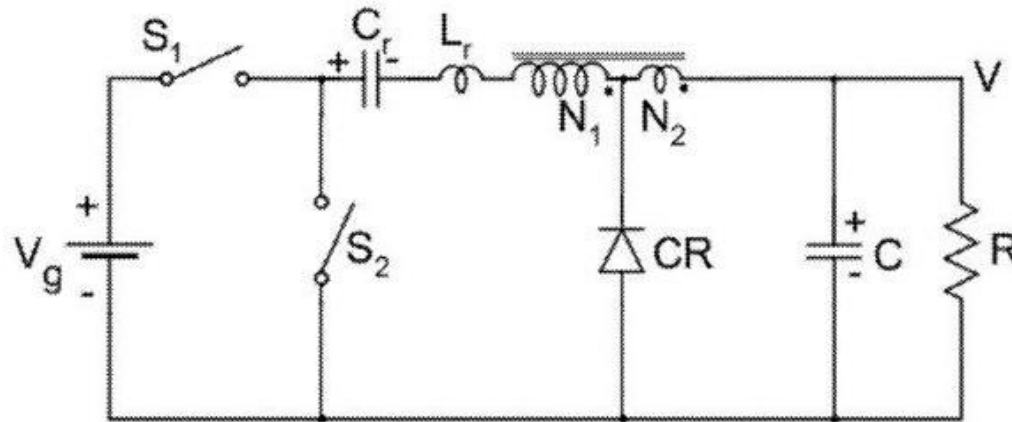
Please, could you summarize in few sentences latest trends in power electronics along with new applications. Thank You!

How are AI/ML advancements in technology going to affect semiconductor industry in general?

Will planar transformers become normal and widely used in future? Or will it be still application specific?

Last Question.....

Dr.Ridley's opinion on DC-DC Cuk-buck2 topology, is it valid what professor Cuk is advertizing?



Four conditions:

Open Questions:

How to Learn More



Email info@ridleyengineering.com
For full demo



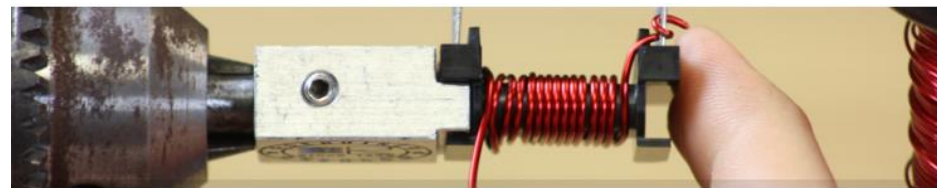
Frequency Response Analyzers



A New Small-Signal Model for Current-Mode Control

Raymond B. Ridley

Free
Book



> Education > Power Design Workshop > Intro

POWER SUPPLY DESIGN WORKSHOPS



Power Supply Design Center Facebook Group

Power Supply Design Center Articles

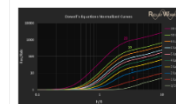
[113] THE ADVENTURES OF 'OHM

This custom-designed comic strip is for all the electrical engineers who are suddenly working from home.



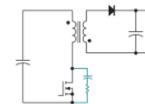
[112] THE POWER OF DOWELL'S EQUATIONS AND CURVES

The standardized curves of Dowell's equations are a superb tool for designing better high-frequency magnetics. A careful balance of layer count and wire or foil count is needed to reach an optimum design.



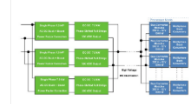
[A24] FLYBACK CONVERTER SNUBBER DESIGN

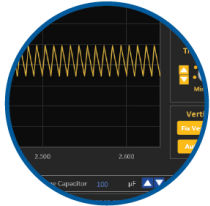
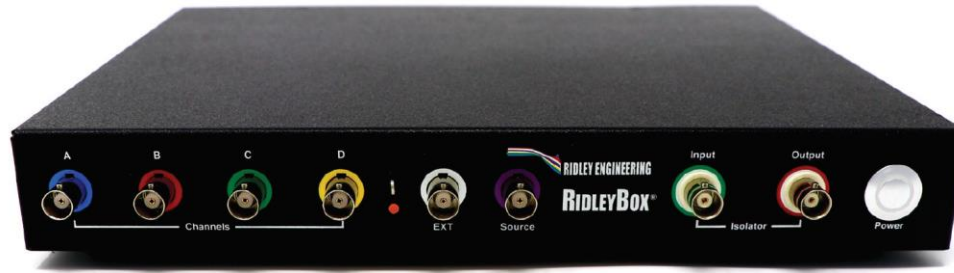
In this article, we will talk about practical design techniques for the most commonly used snubber and clamp circuits for the flyback converter.



[111] ZVS FULL-BRIDGE CONVERTER EMPLOYING AN ACTIVE SNUBBER

The ZVS full bridge converter can be enhanced greatly by implementing an active snubber on the secondary side of the transformer.

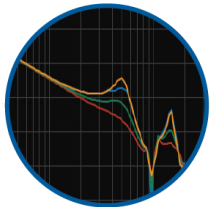




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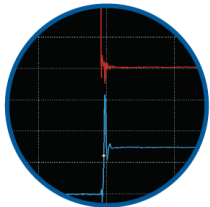
Power Stage Designer
Power Stage Waveforms
Magnetics Designer
Transfer Function Bode Plots

Closed Loop Design
Automated FRA Control
LTspice® Automated Link
PSIM® Automated Link



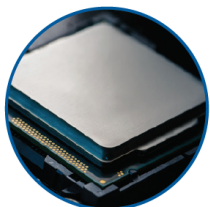
4-Channel Frequency Response Analyzer

Frequency Range 1 Hz - 20 MHz
Source Control from 1 mV - 4 V P-P
Built-In Injection Isolator
Bandwidth 1 Hz - 1 kHz
Automated Setup from RidleyWorks®
Direct Data Flow into RidleyWorks®



4-Channel 200 MHz Oscilloscope

Picoscope® 5444D 4-Channel Oscilloscope
200 MHz Bandwidth
1 GS/s at 8-bit res; 62.5 MS/s at 16-bit res
Signal Generator up to 20 MHz
Computer Controlled



Embedded Computer

Intel® Computer with 32 GB RAM, 256 GB SSD
Intel® HD Graphics 620
Integrated Dual Band Wireless, Bluetooth 4.2
Dual HDMI and USB Ports, Ethernet



Differential Probes



Line Injector



Accessories



Output Impedance



Impedance Test Kit