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Top ten Power Management DesignLine How-To articles for 2005

By Paul O'Shea

The How-To article that garnered the most eyeballs in 2005 on Power Mangement DesignLine was an excellent article on charging lithium ion batteries by Texas Instruments' Jinrong Qian. Well worth the read.

In a very prophetic newsletter statement ("If you read only one article on MOSFETs read this one") that many of you agreed with - was the second most read article, written by Vishay's Jess Brown, was about developing equations for power MOSFET switching transients.

The third most viewed was about piezoelectric ceramic technology for harvesting energy and eliminating batteries, by Advanced Cerametrics' John Marciszewski and Steve Leschin.

Fourth most read was a comparison of a SEPIC and flyback power supply from the pen of John Betten and Robert Kollman of Texas Instruments.

Andigilog's Dave Pivin wrote a very well received article on the challenges of intelligent thermal control for notebooks for fifth best. And it was followed by one from Jan Gripsborn of AnalogicTech on dealing with the different forward voltage characteristics of RGB LEDs.

The seventh most read article from Georgia Tech's Professor Gabriel Rincón-Mora and his sharp grad students was about getting rid of the noise in linear regulators when you only have on-chip capacitors.

The eighth place article from Agere's Tony Grewe and Steven Strauss proposed a power management plan for the upcoming consumer electronics power requirements.

The ninth most read article from American Power Conversion talked about the many misconceptions about the function of the neutral wire and its relation to power problems.

Finally, the tenth most read article for 2005 was a collaborative effort from Primarion and Intersil on meeting current and future performance needs for power systems.

You can read what your colleagues thought were the best of the best by clicking on these links to the **Top How-To articles for 2005**:

1. [How to Charge Li-Ion Batteries for Portable Devices More Efficiently](#)
2. [Developing Analytical Equations for Determining Power MOSFET Switching Transients](#)
3. [Self-powered systems -- can they eliminate the need for batteries?](#)
4. [Underutilized SEPIC outperforms the flyback topology](#)

5. [Challenges in Intelligent Thermal Control for Notebooks](#)
6. [How to Drive RGB LEDs in Mobile Phones](#)
7. [Power supply ripple rejection and linear regulators - what's all the noise about?](#)
8. [Make power management plans for the coming wave of consumer electronics](#)
9. [Neutral Wire Facts and Mythology](#)
10. [Digital multiphase power for CPU cores](#)



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