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# POWER TECHNOLOGY

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October 10, 2006

## Load-transient-response testing for voltage regulators

Variations occur in voltage regulators' transient loads; thus, the devices require careful evaluation and testing.

## Medical devices demand stringent isolation techniques



Safety regulations for medical devices mandate isolated power supplies and I/O lines. The goal of these regulations is simple: Don't electrocute the patient. You can use a variety of techniques, including transformers, optoisolators, and advanced isolation ICs.

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## New RoHS Compliant JBW Power Supplies from Kepco

Kepco's new models of Series JBW are low cost, PC card, single output power supplies offering OEMs 75, 100 and 150 watts of d-c power. Featuring wide range input (85-265V a-c), active PFC, carry the CE Mark and all safety agency approvals. They have on-board filtering to FCC Class B conducted emissions. [Click here.](#)



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## Ultra-thin heat spreader relies on fluid core to cool processors and displays

Power-hungry components such as graphics processors and LED displays currently may rely on a combination of heat spreaders, pipes, and fans to wick heat away. However, fans introduce reliability concerns and pipes are bulky and large, and any technology that minimizes their use is a good thing.

## Fujitsu next to recall Sony batteries

Fujitsu will recall a total of 287,000 Sony battery packs worldwide due to an overheating threat.

## Changing the PWM signal to dc

You can generate a variable dc reference voltage with a DAC or with a PWM (pulse-width-modulation) signal from your controller. The accuracy of the voltage source that the PWM/lowpass-analog-filter combination generates is as accurate as your onboard timer, filter operational amplifier, and power-supply voltage.

## Carbon nanotubes to be used in light bulbs

Applied Nanotech enters into a license agreement with Shimane Masuda Electronics to manufacture the first light bulbs based on

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carbon nanotubes.

### **Milestones That Mattered: MOSFETs drove switching-power-supply trend**

Higher frequencies enabled smaller magnetics but yielded a tougher design challenge.

### **Magma donates low-power technology to Accellera**

In a move that echoes one made by Synopsys earlier this week, Magma Design Automation donates specifications for its low-power technology to Accellera's low-power standardization effort.

### **SPST pushbutton switch combines power-control, user-input functions**

One control serves multiple functions.

### **Electronic circuit replaces mechanical push-push switch**

Toggle-action circuit uses a low-cost momentary-contact switch.

digital RF designs.—Se...

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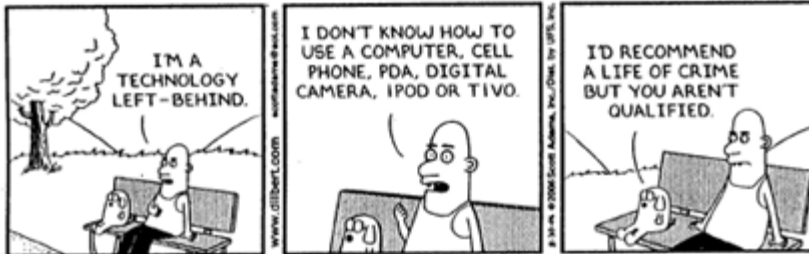
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**Dilbert**

**By Scott Adams**



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