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Turning point in marine propulsion: contra-rotating Azipod



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A new dry capacitor for HVDC applications

6 Turning point: CRP Azipod® gives a boost to marine propulsion efficiency

Tomi Veikonheimo, Matti Turtiainen

This contra-rotating propeller system extends the applicability of ABB's Azipod concept into a new area – that of high-power, high-speed vessels.

12 'Front-line' process control with Operate™ Pocket Portal™

Rune Persson

Functionality specially developed for a PDA's small screen puts real-time information – and control capability – in the hands of, say, a maintenance engineer down on the shop floor.

15 Cut and dried: a new dry capacitor for high-voltage DC applications

Birger Drugge, Martin Carlen, Sari Laihonen, Luc Spronck

The smaller, the better. A new dry high-voltage capacitor for indoor DC applications stores twice the energy in half the volume and weighs 80 % less than a conventional 'wet' unit.

21 Hidden assets: a new range of submersible solid insulation distribution transformers

Claude Paradis, Jacques Coté

These transformers solve the diverse problems encountered when burying residential distribution networks.

26 GridView: mimicking electricity markets to optimize asset utilization

Xiaoming Feng, Willie Wong, Le Tang

Identifying transmission bottlenecks and spotting opportunities for system expansion – two of the tasks performed by this new simulation tool.

30 IPv6 – the new Internet protocol

Niels D. Aakvaag, Nils A. Nordbotten

What are the implications of the next-generation Internet protocol for ABB?



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GridView



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Tested: a new Internet protocol



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Optimizing power transmission systems

36 Design^{IT} Transmission System Configurator

Martin Naedele, Christian Rehtanz, Dirk Westermann, Antonio Carvalho

This tool, built upon ABB's Industrial^{IT} software framework, lets network operators quickly evaluate different solutions before committing to major investments.

R&D digest

42 A new Industrial^{IT} development center in India

Now officially open, this center in Bangalore – the 'Silicon Valley of India' – is already working on projects that reflect the growing content of software in ABB's products and service offerings to customers.

43 Toward sustainability optimization with Industrial^{IT}

ABB scientists are working on a solution that uses the Aspect Objects™ feature of the ABB Industrial^{IT} architecture to improve the sustainability performance of products through more effective data management.

News

- 44 ABB wins Wall Street Journal technology award
CVRD in Brazil orders drive system

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