

D P N

DESIGN PRODUCT NEWS



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Wireless sensor network

Sensicast smart wireless sensors provide a way to deploy networks through pre-integrated probes used for temperature and humidity, as well as motion, current and voltage. Small networks can be configured with just a few points or scaled up to hundreds of points.

cdnova.com

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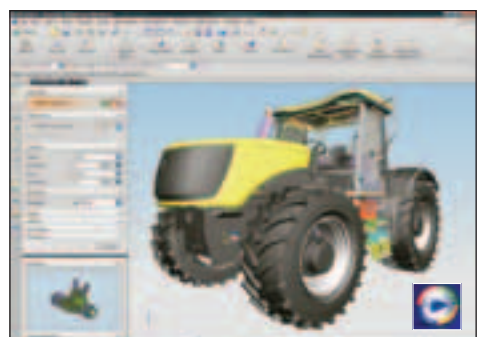


Color 3D prototype printer

Z Corporation has announced the ZPrinter 450 color 3D printer, an output device that transforms electronic 3D data into hand-held physical models, breaks the US\$40,000 price point. Features include automatic set-up and self-monitoring of materials.

zcorp.com

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NX 5 CAD/CAM/CAE software

UGS Corp. has announced Version 5 of its NX digital product development software. Features include effective reuse without re-design of legacy data and Active Mockup to bring in third party files into the context of a total product or assembly.

ugs.com/nx

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Nanotech shafts keep golfers on target

By Mike Edwards

Getting set to rip up the fairways this summer are the Epic brand series of composite shafts. Made by Grafalloy of Memphis, TN, the shafts were developed with the assistance of nanotechnology R&D licensor Toronto-based Integran Technologies Inc. and sporting goods nanotechnology licensee Power-Metal Technologies of Carlsbad, CA.

Integran, which licenses its technology for sporting goods, industrial and environmental applications, has discovered that a nanometal

coating acts as a hard but ductile protective layer on carbon fibre material typically prone to impact damage and crack propagation. In motorsports, engineers have found that nanometal coatings improve impact resistance to stone-chipping so that a coated carbon fibre tube sees little surface damage while an uncoated tube completely fractures.

Via Integran's patent-protected electrosynthesis technology, materials having average crystal sizes 1000x smaller – about 20 nm – than those found in conventional materials, can be inexpensively produced in a one-step process.

Golf clubs incorporating the nanotechnology

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