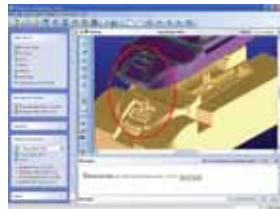


Product showcase

Collaboration made easy

CoCreate Software has released OneSpace.net 2005, an online project data management and team collaboration solution that enables engineers, suppliers, customers, and experts to work efficiently across a distributed project team. The latest version of the software provides a simple way to control, track, and version project data. Through web folders, OneSpace.net 2005 becomes part of each user's file system so that team members from any location can access the most up-to-date version of project data. Team members from inside or outside the company can work on this data from a shared location that behaves like a network drive. Companies can use the OneSpace.net 2005 workspace to link project-relevant data from a source in any enterprise system.

For more information, circle 100



Carbon-fiber heater

The Flexible Carbon Fiber Heater from **Method Development Company** provides greater mechanical reliability and offers a wider range of options than conventional polymer thick-film etched copper flexible heaters. Aeronautical deicing systems are among the technology's applications. The technology uses stranded carbon fiber and employs Sonicrimp sonic welding technology for electrical termination. Seven-micron carbon-fiber strands are configured into a flat form, which is sealed in a 3-mil Mylar or Kapton jacket. The heaters are less susceptible to increased resistance or cracked traces than traditional flat flex heaters when subjected to repetitive flexes or certain crease bending specifications.

For more information, circle 101



Current transducers

American Aerospace Controls' 929 Series of bidirectional current transducers accurately follow extremely fast dc and/or ac current waveforms. The units consume 80 to 270 mW during operation, and provide a response to complex current waveforms from dc to 350 kHz. Accuracy is $\pm 1.0\%$ full scale over the temperature range -40 to $+185^\circ\text{F}$. The compact, flame-retardant package measures $1.9 \times 3.3 \times 1.9$ in and has a mass of 6 oz.

For more information, circle 102



New FEMLAB modules

FEMLAB 3.1 is the latest version of the multiphysics modeling environment from **COMSOL**. The upgraded computational foundation can now take advantage of 64-bit technology, and the solver has been optimized for reduction in solution times and memory consumption. A report generator has been added for automatic documentation of user-created models. The new Heat Transfer Module helps to analyze the movement of heat energy by conduction, convection, and surface radiation. The MEMS module was developed for the research and design of microelectromechanical systems. Modules provide convenient user interfaces, equation setups, and complete models for simulation and analysis.

For more information, circle 103



Driveline modeling, simulation

The **MathWorks** has launched SimDriveline to extend Simulink with tools for modeling and simulating the mechanics of drivelines (or drivetrains). The tools include components such as gears, rotating shafts, and clutches; standard transmission templates; and engine and tire models. SimDriveline is optimized for calculation speed of driveline mechanics, and is integrated with MathWorks control design and code generation products, enabling engineers to design controllers and test them in real time with the model of the mechanical system. SimDriveline can be used for a variety of automotive, aerospace, defense, and industrial applications. It is particularly suited to the development of controllers for aerospace transmission systems.

For more information, circle 104



UV inspection lamp

The AP-800 UltraWand UV inspection lamp from **Spectrolite** delivers long-wave UV (365 nm) illumination in restricted areas that make accurate nondestructive test inspections virtually impossible for conventional lamps. It can be used to detect foreign matter or flaws between jet-engine turbine blades, or to conduct internal wet-magnetic-particle and liquid-penetrant inspections. An 8-W UV tube at one end of the anodized aluminum cylinder concentrates all of the UV light where it is most needed. The lamp has a diameter of 1 in and a reach of 30 in.

For more information, circle 105

