DYNAmore GmbH
Gesellschaft für FEM-
Ingenieurdienstleistungen

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DYNAmore: New version LS-DYNA R7 available

Stuttgart, 9 March 2013 – DYNAmore GmbH announces the release of LS-DYNA R7, which contains many new features and improvements. The focus is drawn on three new solvers for compressible and incompressible fluids as well as for electromagnetism that can be coupled with existing solvers for structure and temperature.

LS-DYNA is a highly-developed universal finite-element software, which is not only ideal for crashworthiness and deep drawing simulations but is also perfectly suitable to simulate other highly nonlinear physical problems encountered in industry and research. The software has been optimized for multiprocessor systems as well as massively parallel computer systems to enable extremely short turnover times and is thus, an ideal companion for product design and layout.

Developed by the Livermore Software Technology Corporation (LSTC), LS-DYNA is a well equipped toolbox containing efficient temporal and spatial discretization methods that allow for a seamless numerical computation of coupled problems. This includes not only the class of surface-coupled problems but also volume-coupled problems and relates to the required coupling capabilities of the structural solvers with solvers for incompressible and compressible fluids, temperature and electromagnetism.

Additionally, LS-DYNA can be used to sequentially join different simulation stages without the need to define time-consuming transitions to other software packages. A combination of the functions offered by LS-DYNA enables the straight-forward

simulation of multiple interacting physical phenomena on different scales independent of the process concerned.

The DYNAmore company provides excellent support for the numerical solution of nonlinear physical problems. The range of products comprises the finite-element software LS-DYNA, the pre- and postprocessor LS-PrePost and the optimization software LS-OPT as well as numerous FE models for crash simulation (dummies, barriers, pedestrians, human models, etc.). Core competences are support, sales, training, engineering services, software development and system integration. DYNAmore is one of the top addresses for pilot and development projects when it comes to simulating nonlinear dynamic problems.

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