

ANSYS Explicit Dynamics Solutions

Analyzing a product's response and identifying potential problems before it is manufactured can mean the difference between the product's failure or success. Getting it right the first time is especially important for products that experience severe conditions such as impacts, penetrations, explosions and other similar loadings during use.

ANSYS explicit dynamics engineering simulation solutions are ideal for simulating physical events with severe loading that occur in a short period of time and may result in material damage or failure. These types of events are often difficult or expensive to study experimentally. Simulation provides insight and a detailed understanding of the fundamental physics taking place and gives engineers a chance to make necessary changes before their products are put into service, when mistakes in design can be costly.

Based on first principles, ANSYS explicit dynamics products solve the conservation equations of mass, momentum and energy using explicit time integration. ANSYS[®] Explicit STR[™], ANSYS[®] AUTODYN[™] and ANSYS[®] LS-DYNA[™] solutions collectively offer the full range of capabilities needed to address complex explicit problems.

ANSYS Explicit STR

ANSYS Explicit STR software is the only structural program that is fully integrated into a unified environment capable of incorporating a range of multiphysics solutions, including electrical, thermal, mechanical and computational fluid dynamics (CFD).

The solution method used by ANSYS Explicit STR software is based on the robust and time-tested Lagrange solver of the ANSYS AUTODYN analysis program.

Unified Environment

ANSYS Explicit STR technology enables users to complete their analysis significantly faster than with any other tool in the industry. Competition and economic conditions demand innovative, reliable products that can be designed, manufactured, tested and delivered to customers quickly. At the same time, manufacturing and material costs continually need to be reduced. ANSYS Explicit STR software operates within the ANSYS[®] Workbench[™] platform, which provides a seamless interface to CAD geometry for analysis, automatic meshing and parametric design optimization; users can leverage their expertise without needing to deal with arcane details of simulation methods. Used within the ANSYS Workbench platform, ANSYS Explicit STR software gives users the distinct advantage of being able to complete their analyses quickly, allowing manufacturers to get better quality products to market faster.

ANSYS Explicit STR and the ANSYS Workbench Environment

ANSYS Explicit STR software uses the same graphical user interface (GUI) as the widely popular ANSYS[®] Mechanical[™] solver and all other analysis systems in the ANSYS Workbench environment. This means that, for customers who have used any of the ANSYS Workbench analysis systems, the learning curve for using an explicit solution will be significantly reduced, further enabling the use of this technology in a timely manner.

Industry Solutions



Sport equipment design



Window closure mechanism

Courtesy of AMACO



Stability of a bottle

Explicit Dynamics Solutions Ansys

Chao Zhang



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Plunkett's Nanotechnology & Mems Industry Almanac 2008: Nanotechnology & Mems Industry Market Research, Statistics, Trends & Leading Companies Jack W. Plunkett, Plunkett Research Ltd, 2008-06 Nanotechnology has applications within biotechnology manufacturing aerospace information systems and many other fields This book covers such nanotechnology business topics as micro electro mechanical systems microengineering microsystems microsensors and carbon tubes It also includes statistical tables an industry glossary and indexes **Plunkett's Almanac of Middle Market Companies 2009** Jack W. Plunkett, 2008-08 A business development tool for professionals marketers sales directors consultants and strategists seeking to understand and reach middle market American companies It covers important business sectors from InfoTech to health care to telecommunications Profiles of more than 500 leading US middle market companies Includes business glossary a listing of business contacts indexes and database on CD ROM **Plunkett's InfoTech Industry Almanac** Jack W. Plunkett, 2008-02 Plunkett's InfoTech Industry Almanac presents a complete analysis of the technology business including the convergence of hardware software entertainment and telecommunications This market research tool includes our analysis of the major trends affecting the industry from the rebound of the global PC and server market to consumer and enterprise software to super computers open systems such as Linux web services and network equipment In addition we provide major statistical tables covering the industry from computer sector revenues to broadband subscribers to semiconductor industry production No other source provides this book's easy to understand comparisons of growth expenditures technologies imports exports corporations research and other vital subjects The corporate profile section provides in depth one page profiles on each of the top 500 InfoTech companies We have used our massive databases to provide you with unique objective analysis of the largest and most exciting companies in Computer Hardware Computer Software Internet Services E Commerce Networking Semiconductors Memory Storage Information Management and Data Processing We've been working harder than ever to gather data on all the latest trends in information technology Our research effort includes an exhaustive study of new technologies and discussions with experts at dozens of innovative tech companies Purchasers of the printed book or PDF version may receive a free CD ROM database of the corporate profiles enabling export of vital corporate data for mail merge and other uses **Plunkett's Almanac of Middle Market Companies: Middle Market Research, Statistics & Leading Companies** Jack W. Plunkett, 2007-07 Plunkett's Almanac of Middle Market Companies 2008 is designed to be time saving business development tool for professionals marketers sales directors consultants and strategists seeking to understand and reach middle market American companies It will also be of great use to placement recruiting and human resources professionals as well as professionals working in economic development lending and media It covers competitive intelligence market research and business analysis everything you need to identify and develop strategies for middle market corporations Coverage includes all major business

sectors from InfoTech to health care to telecommunications and much more We have intentionally omitted retail companies and banks These profiles and details on over 500 middle market firms are pulled from our extensive company and industry databases We also include a business glossary and a listing of business contacts such as industry associations and government agencies Next we profile hundreds of leading middle market companies Our company profiles include complete business descriptions and up to 27 executives by name and title Purchasers of either the book or PDF version can receive a free copy of the company profiles database on CD ROM enabling key word search and export of key information addresses phone numbers and executive names with titles for every company profiled

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