

## 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<sup>®</sup> Explicit STR<sup>™</sup>, ANSYS<sup>®</sup> AUTODYN<sup>™</sup> and ANSYS<sup>®</sup> LS-DYNA<sup>™</sup> 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<sup>®</sup> Workbench<sup>™</sup> 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<sup>®</sup> Mechanical<sup>™</sup> 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

**Jack W. Plunkett, Plunkett Research  
Ltd**



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web when the reactants have more potential energy than the products have and the extra energy is released to the surroundings it is called activation energy the height of the hill on a potential energy diagram is a measure of the endothermic the reaction above can be categorized as

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web this is like a one dimensional system whose mechanical energy  $e$  is a constant and whose potential energy with respect to zero energy at zero displacement from the spring  $s$  unstretched length  $x = 0$  is  $u = \frac{1}{2} kx^2$  figure 8 5 2 8 5 2 a glider between springs on an air track is an example of a horizontal mass spring system

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web 1 if the  $pe$  of the reactants is 430kj and the  $pe$  of the products is 190kj what is the  $\Delta h$  2 if the  $pe$  of the reactants is 430kj and the activation energy is 220 how much total energy will be needed to be added for the reaction to proceed transcribed image text potential energy diagram answer the questions using the graph

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web figure 5 5 1 a potential energy diagram shows the total potential energy of a reacting system as the reaction proceeds a in an endothermic reaction the energy of the products is greater than the energy of the reactants and  $\Delta h$  is positive b in an exothermic reaction the energy of the products is lower than the energy of the

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constant of gases  $t$  is the absolute temperature

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web key points potential energy is energy that has the potential to become another form of energy an object's potential energy depends on its physical properties and position in a system potential energy comes in many forms such as gravitational potential energy due to an object's mass and position in a gravitational field

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web the energy of the reactants is shown on the energy diagram above on the right side of the energy diagram draw a horizontal line segment to indicate the energy of the products draw a vertical line segment to indicate  $\Delta H$  for the reaction and label it with the correct value see attached image

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