

Ensuring Impact Integrity for Consumer Products and Defense Industry

Introduction

Most consumer and industrial products are subjected to being dropped during their service life and shipment. These drop impacts can cause minor to severe deformation or mechanical failure of products. For consumer electronic products, these failures can include:

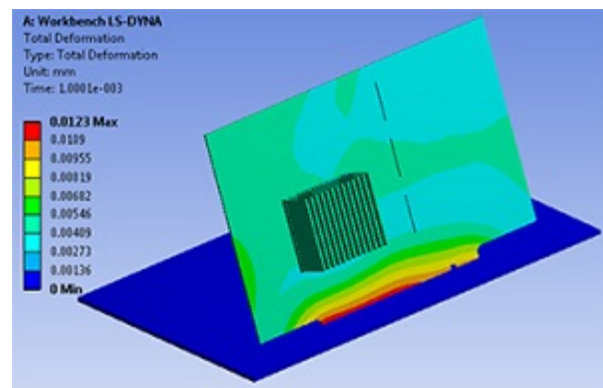
- Cracks or breaks in display panels
- Excessive flexing deformation of printed circuit board (PCB)
- Mechanical/Electrical failure of internal components
- Rupture of casing (containers)

A good design can minimize the damage that results with the use of appropriate geometry, materials, and packaging. Explicit simulation enables the product design to be tested before a prototype is built. The end result is a less expensive process that can give results faster than experimental testing of the product.

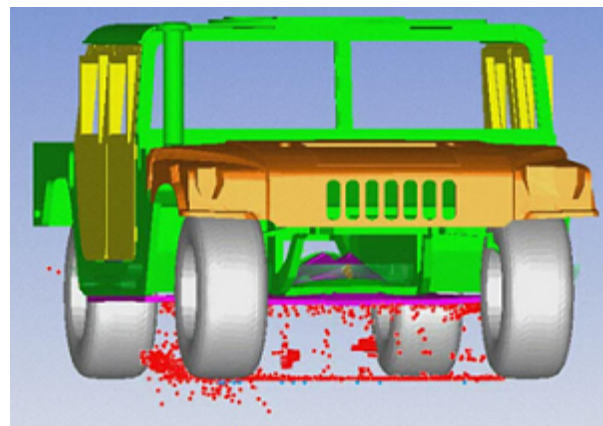
For the Defense Industry, simulation can help improve the survivability of buildings, vehicles, soldiers and police personnel. Engineers can design and virtually test simple and complex active armour to protect troops in battle from improvised explosive devices, rocket-propelled grenades, shaped charges, terrorist attack and other threats.

Objectives

This workshop will provide a quick glance on the advantages of introducing Explicit Dynamic Simulation for defense and homeland security and also drop test applications.



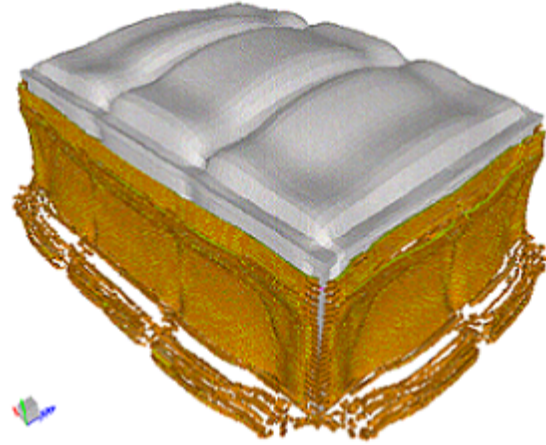
Circuit Board Drop Test



Armor Design for a Humvee

Benefits

- Gain split second insight you need on how a product responds to severe loadings along with ease of use and trusted results.
- Learn about new, advanced technologies for solving the defense industry's most challenging explicit dynamics problems.
- Learn how ANSYS simulation tools help reduce physical prototypes with its proven ability to slash money and time from the development cycle.



Deformation of a structure under the impact of inside explosion

Who Should Attend

Engineering Managers, Design Engineers, CAE Analysts

What customers say about our solutions

"ANSYS explicit dynamics repeatedly enables us to **solve complex explicit problems** for our customers. We can get answers to them **quickly due to the program's ease of use**. The state-of-the-art solution methods and extensive material models **produce accurate results, a necessity for creating follow-on business**."

Chris LeBoeu, Principal Engineer, ABS Consulting

"The ability to couple Eulerian and Lagrangian frames of reference is especially helpful in blast field modeling. With ANSYS explicit dynamics, energy is easily transferred between the two for **accurate modeling of the entire blast process**."

Dale Preece, Global Technology Development, Orica USA Inc

"All our customers want answers to their questions really fast. And it's implicit that they want accurate answers. There are plenty of tools around that give you an answer very quickly, but it's more difficult to find a tool that is **both accurate and quick at the same time**. That's ANSYS."

Jonas Persson, Technical Manager, ST-Ericsson

Presenter Profile



Hari Hara Sudhan is currently the Technical Sales Engineer for CAD-IT Consultants and part of a technical team that consists of more than 4 other PhDs consultants that support customers in various discipline domains. He completed his Master of Science in Mechanical in National University of Singapore with his coursework focused on Design and Manufacturing. He is specialized in structural simulation, currently providing consulting and post-sales technical support on ANSYS Workbench, Mechanical and nCode fatigue tool.

Event Information

Date : 28th August 2015 (Friday)
Time : 9:00 am - 12:30 pm
Venue : CAD-IT Consultants (Asia) Pte Ltd
159 Sin Ming Road, #03-05 Amtech Building, Singapore 575625 ([view map](#))

Agenda	9:00 – 10:30 am	Drop Test Simulation for Impact Integrity
	10:30 – 10:50 am	Tea Break and Networking
	10:50 – 12:30 pm	Explicit Dynamics Simulation for Defense and Homeland Security

Register NOW

- Register online for this event.
- CAD-IT Consultants reserves the right to cancel or postpone the event due to unforeseen circumstances.

For enquiries, please call 6508-7575 or email at caditevents@cadit.com.sg

About CAD-IT Consultants

Founded in 1991, CAD-IT is a leading global ISO 9001:2008 certified Product Life Cycle Management (PLM), manufacturing and education provider. CAD-IT's mission is to provide world-class solutions and services that enable companies and their supply chains to achieve greater product innovation, quality and productivity with drastically reduced time-to-market and costs.

CAD-IT is honored to have received over 80 international and national awards since its inception for marketing and service excellence. Among its most recent accolades are the Singapore Enterprise 50 Award (2014, 2013, 2012), Singapore SME 1000 (2014, 2013, 2012, 2011), Asia Pacific Entrepreneur Award (APEA) - Outstanding Entrepreneur Award (2012, 2010, 2009), the Singapore Prestige Brand Award SPBA - Established Brand Award (2012, 2011, 2010, 2009), SPBA - Regional Brand Award 2012 and SPBA - Hall of Fame 2012.

CAD-IT Consultants' suite of PLM solutions include ANSYS (System-level, Multiphysics Simulation), Goldfire Innovator (Innovation Process Management), Moldflow (Plastics CAE), Stampack (Sheet Metal Forming), Deform (Bulk Metal Forming CAE), SpaceClaim (3D Direct Modeler), Mentor Graphics Valor DFM (Design For Manufacturing), Valor MSS (Complete Manufacturing Execution Suite) and Cortona3D (3D Technical Documentation).

Since February 2010, CAD-IT has partnered the Singapore Workforce Development Agency (WDA) to offer Advanced Certificate courses in PLM and Engineering Simulation, under the Workforce Skills Qualifications (WSQ) framework, with the charter to upgrade the technological capabilities of organizations in Singapore so as to enable them to undertake high value-add design, engineering, manufacturing and R&D activities.



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