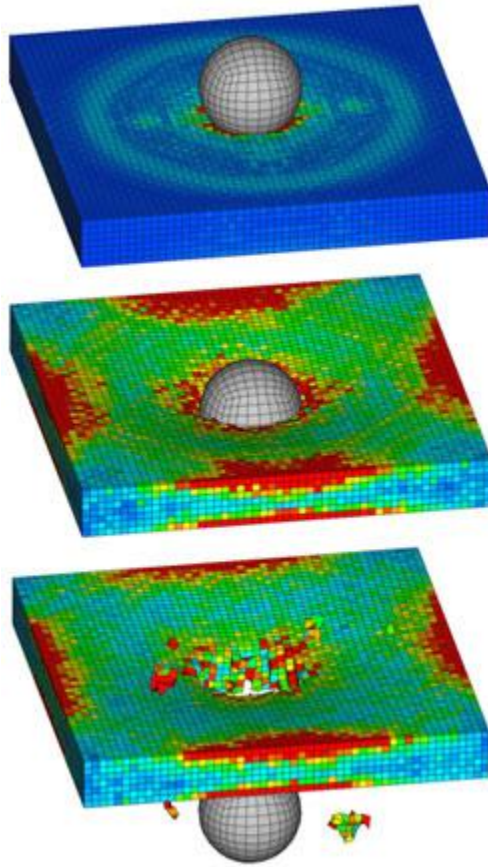


## NEi Software Announces NEi Explicit for Nastran

### Upcoming Webinar Will Demonstrate Explicit FEA Applications



*A rigid sphere traveling at 200 m/s impacting armor plating. The armor plating uses a nonlinear material with element deletion to accurately simulate the energy absorption capabilities of the plate.*

Westminster, CA. November 2, 2009. NEi Software ([www.NEiSoftware.com](http://www.NEiSoftware.com)), a global provider of NEi Nastran Finite Element Analysis (FEA) software, announced the addition of an explicit dynamics program to their simulation software suite — **NEi Explicit 2010**. This code has been used commercially since 2006, but has been enhanced by the lead developer, Dr. Lee Taylor, specifically to meet the needs of NEi's customers in the aerospace, automotive and maritime industries. NEi Explicit solves nonlinear impact problems that involve large deformations with complex contact and motion. Typical applications include crash, metal forming processes, drop tests, and ballistic scenarios. NEi Explicit can also be used to solve static problems with millions of degrees of freedom. Because they are extremely large and highly contact dominated, these problems are difficult to solve using implicit FEA codes. Several examples of NEi Explicit applications along with product information can be found at [www.NEiExplicit.com](http://www.NEiExplicit.com). The animated solutions in the examples include a bird strike on a turbine engine, a bullet impacting armor, a sheet metal stamping operation, and fracture of a plastic buckle.

#### Key Features of NEi Explicit

- Complete integration with the NEi Nastran environment
- Automatic contact generation
- Rigid materials definition
- Material deletion criteria with element deletion and automatic reconstruction of contact surface due to surface erosion
- Parallel performance
- Compelling price point

To help launch NEi Explicit, NEi Software will host an instructional webinar titled "When Nastran Goes Explicit" on Wednesday, November 4th at 11:00 AM – 12:00 PM PST. The webinar will explain the differences between implicit and explicit FEA and demonstrate the use of explicit FEA through examples and applications using NEi Explicit. Sign up for the webinar is at [www.NEiSoftware.com/webinar/explicit](http://www.NEiSoftware.com/webinar/explicit).

#### About Dr. Lee Taylor

Dr. Taylor is the lead software developer for NEi Explicit. He has over 20 years of experience developing explicit dynamics code, as well as creating training materials and documentation. His background includes serving as President and Chief Scientist for TeraScale and Principal Member of the Sandia National Laboratories Technical Staff. Dr. Taylor's work has been published in the Journal of Materials Processing Technology, Mechanics of Materials, Fracture Mechanics of Ceramics, International Journal for Numerical and Analytical Methods in Geomechanics and Computer Methods in Applied Mechanics and Engineering. He is a member of ASME and received his Ph.D in 1981 in Engineering Mechanics from the University of Texas in Austin.

**About NEi Software**

NEi Software is a global provider of Nastran Finite Element Analysis (FEA), engineering simulation, and virtual test software. Engineers gain insight with digital prototypes, images, contour plots, graphs, and animations of linear and nonlinear structural stress, deformation, dynamics, vibration, kinematics, impact, heat transfer and fluid dynamic (CFD) simulations. The website features case studies in aerospace, automotive, maritime, petroleum, medical, and consumer products with demonstration videos, webinars, tutorials, and training schedules.

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