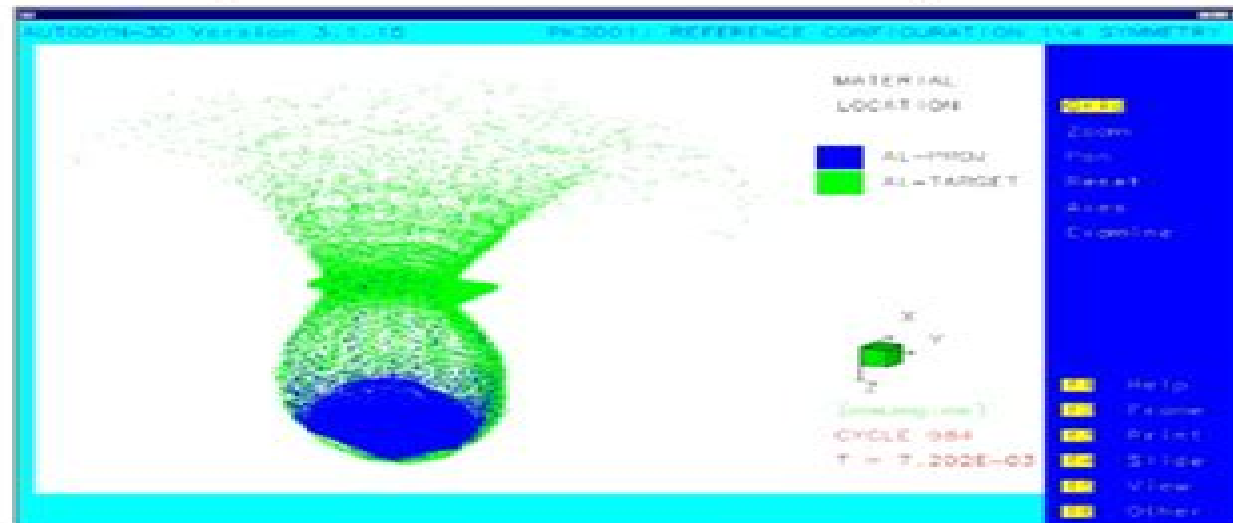


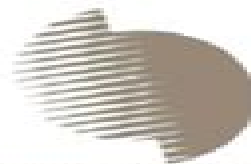
# AUTODYN®

## Explicit Software for Nonlinear Dynamics



## SPH User Manual & Tutorial

Revision 4.3



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# Autodyn Sph Manual

**Norman Jones, C. A. Brebbia**



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**Structures Under Extreme Loading Conditions**, 1998      *Structures Under Shock and Impact VII* Norman Jones, C. A. Brebbia, A. M. Rajendran, 2002 The shock and impact behaviour of structures is an extremely challenging area. It is therefore important to recognize and utilize the contributions emerging from theoretical, numerical and experimental studies on structures as well as investigations into material properties under dynamic loading conditions      *Hyper-Velocity Impacts on Rubble Pile Asteroids* Jakob Deller, 2016-12-01 The thesis presents a tool to create rubble pile asteroid simulants for use in numerical impact experiments and provides evidence that the asteroid disruption threshold and the resultant fragment size distribution are sensitive to the distribution of internal voids. This thesis represents an important step towards a deeper understanding of fragmentation processes in the asteroid belt and provides a tool to infer the interior structure of rubble pile asteroids. Most small asteroids are rubble piles, i.e. accumulated fragments of debris from earlier disruptive collisions. The study of fragmentation processes for rubble pile asteroids plays an essential part in understanding their collisional evolution. An important unanswered question is what is the distribution of void space inside rubble pile asteroids. As a result from this thesis, numerical impact experiments can now be used to link surface features to the internal structure and therefore help to answer this question. Applying this model to asteroid 253 Mathilde, which was imaged from close range by the Rosetta spacecraft, a large hill-like structure is shown to be most likely primordial, while a catena of pits can be interpreted as evidence for the existence of fracturing of pre-existing internal voids      **Explosion Systems with Inert High-Modulus Components** Igor A. Balagansky, Anatoliy A. Bataev, Ivan A. Bataev, 2019-06-17 Describes in one volume the data received during experiments on detonation in high explosive charges. This book brings together in one volume information normally covered in a series of journal articles on high explosive detonation tests so that developers can create new explosive technologies. It focuses on the charges that contain inert elements made of materials in which a sound velocity is significantly higher than a detonation velocity. It also summarizes the results of experimental, numerical and theoretical investigations of explosion systems which contain high modulus ceramic components. The phenomena occurring in such systems are described in detail: desensitization of high explosives, nonstationary detonation processes, energy focusing and Mach stem formation. Formation of hypersonic flows of ceramic particles arising due to explosive collapse of ceramic tubes is another example of the issues discussed. **Explosion Systems with Inert High Modulus Components: Increasing the Efficiency of Blast Technologies and Their Applications** also looks at the design of explosion protective structures based on high modulus ceramic materials. The structural transformations caused in metallic materials by the energy focusing or by the impact of hypersonic ceramic jets are also discussed. These transformations include but are not limited to adiabatic shear banding, phase transformations, mechanical twinning, melting, boiling and even evaporation of the impacted substrates. Specifically discusses in one volume the explosions involved with inert high modulus components normally scattered over numerous journal articles. Covers

methods to increase energy output of a weak explosive by encasing it in a higher explosive Discusses the specifics of explosive systems containing high modulus inert elements Details the process of detonation and related phenomena as well as the design of novel highly performant explosive systems Describes the transformation in materials impacted due to explosion in such systems Explosion Systems with Inert High Modulus Components will be of great interest to specialists working in fields of energy of the explosion and explosion safety as well as university staff students and postgraduate students studying explosion phenomena explosive technologies explosion safety and materials science **Ballistics 2011** Ernest Baker,Douglas Templeton,2011-09 Includes papers that were first presented at a September 2011 conference organized by the National Defense Industrial Association and the International Ballistics Society This title includes a CD ROM that displays figures and illustrations in articles in full color along with a title screen and main menu screen

*Computational Plasticity* Mao-Hong Yu,Jian-Chun Li,2012-12-02 Computational Plasticity with Emphasis on the Application of the Unified Strength Theory explores a new and important branch of computational mechanics and is the third book in a plasticity series published by Springer The other two are Generalized Plasticity Springer Berlin 2006 and Structural Plasticity Springer and Zhejiang University Press Hangzhou 2009 This monograph describes the unified strength theory and associated flow rule the implementation of these basic theories in computational programs and shows how a series of results can be obtained by using them The unified strength theory has been implemented in several special nonlinear finite element programs and commercial Finite Element Codes by individual users and corporations Many new and interesting findings for beams plates underground caves excavations strip foundations circular foundations slop underground structures of hydraulic power stations pumped storage power stations underground mining high velocity penetration of concrete structures ancient structures and rocket components along with relevant computational results are presented This book is intended for graduate students researchers and engineers working in solid mechanics engineering and materials science The theories and methods provided in this book can also be used for other computer codes and different structures More results can be obtained which put the potential strength of the material to better use thus offering material saving and energy saving solutions Mao Hong Yu is a professor at the Department of Civil Engineering at Xi an Jiaotong University Xi an China

**Structures Under Shock and Impact VI** Norman Jones,C. A. Brebbia,2000 Annotation Reflecting the broad range of interest in this extremely active field this book contains contributions originally presented at the sixth international conference on this subject **Shock Compression of Condensed Matter--1999** Michael D. Furnish,Lalit C. Chhabildas,Robert S. Hixson,2000 *Shock Compression of Condensed Matter - 2001* Michael D. Furnish,Naresh N. Thadhani,Yasuyuki Horie,2002-07-12 Part One and Part Two

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