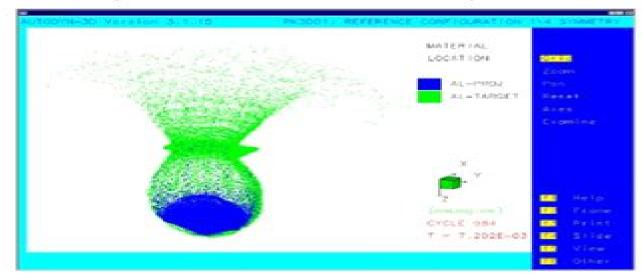




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Norman Jones, C. A. Brebbia

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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 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

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 stems 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 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 modules 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 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 re 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 teins 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 Applied Impact Mechanics C. Lakshmana Rao, V. Narayanamurthy, K. R. Y. Simha, 2016-06-13 This book is intended to help the reader understand impact phenomena as a focused application of diverse topics such as rigid body dynamics structural dynamics contact and continuum mechanics shock and vibration wave propagation and material modelling It emphasizes the need for a proper assessment of sophisticated experimental computational tools promoted widely in contemporary design A unique feature of the book is its presentation of several examples and exercises to aid further understanding of the physics and mathematics of impact process from first principles Ballistics 2011 Ernest Baker, Douglas Templeton, 2011-09 Includes papers that were first in a way that is simple to follow 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 **Introduction to Hydrocodes** Jonas Zukas, 2004-01-20 A hydrocode refers to a computer

program used for the study of the dynamic response of materials and structures to impulse primary blast impact involving everything from car and aircraft collisions to impacts of space structures by assorted debris The understanding of hydrocodes requires knowledge of numerical methods in the code as well as a keen understanding of the physics of the problem being addressed This can take many years to learn via codes There are currently a number of titles addressing the physics of high pressure and high rate material but nothing introducing the novice to the fundamentals of this highly technical and complicated study Introduction to Hydrocodes bridges the gap bringing together the large body of literature scattered through diverse journals government and corporate reports and conference proceedings As valuable as the text are the cited references and the combination will take years off the preparation time of future code users Introduces complex physics essential for the understanding of hydrocodes Infused with over 30 years practical experience in the field Brings together a wide range of literature saving valuable research time 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 **Notes on Projectile Impact** Analyses Hao Wu, Yong Peng, Xiangzhen Kong, 2019-04-23 This book presents comprehensive experimental numerical and theoretical research on projectile impact analysis such as the rigid projectile penetration perforation of concrete and metallic targets and shaped charge formed projectile and jet penetrations Concrete and metal materials are widely used in protective structures in both civil engineering and armored vehicles such as military fortifications underground shelters infantry fighting vehicles and tanks which are designed to withstand intentional or accidental impact loadings caused by projectiles and fragments and the responses of these targets under projectile impact have been a topic of discussion for several decades Written for researchers and engineers working in the fields of protective structures and high speed penetration mechanics the book is also a valuable reference for senior undergraduate and postgraduate students majoring in defense engineering terminal ballistics and other related fields

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