

SOLID MECHANICS AND ITS APPLICATIONS

Gabi Ben-Dor, Anatoly Dubinski and Tov Elperin

Applied High-Speed Plate Penetration Dynamics



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Applied Highspeed Plate Penetration Dynamics

**Hans-Joachim Heinemann,G.E.A.
Meier,K.R. Sreenivasan**



Applied Highspeed Plate Penetration Dynamics:

Applied High-Speed Plate Penetration Dynamics Gabi Ben-Dor, Anatoly Dubinsky, Tov Elperin, 2006-02-22 High speed impact dynamics is of interest in the fundamental sciences e.g. astrophysics and space sciences and has a number of important applications in military technologies homeland security and engineering When compared with experiments or numerical simulations analytical approaches in impact mechanics only seldom yield useful results However when successful analytical approaches allow us to determine general laws that are not only important in themselves but also serve as benchmarks for subsequent numerical simulations and experiments The main goal of this monograph is to demonstrate the potential and effectiveness of analytical methods in applied high speed penetration mechanics for two classes of problem The first class of problem is shape optimization of impactors penetrating into ductile concrete and some composite media The second class of problem comprises investigation of ballistic properties and optimization of multi layered shields including spaced and two component ceramic shields Despite the massive use of mathematical techniques the obtained results have a clear engineering meaning and are presented in an easy to use form One of the chapters is devoted solely to some common approximate models and this is the first time that a comprehensive description of the localized impactor medium interaction approach is given In the monograph the authors present systematically their theoretical results in the field of high speed impact dynamics obtained during the last decade which only partially appeared in scientific journals and conferences proceedings

High-speed Penetration Dynamics Gabi Ben-Dor, Anatoly Dubinsky, Tov Elperin, 2013 This important monograph is the first comprehensive compendium of engineering models used in high speed penetration mechanics The book consists of two parts The first part more than a quarter of the book's content is in fact a handbook giving a very detailed summary of the engineering models used for the analysis of high speed penetration of rigid projectiles into various media concrete metals geological media The second part of the book demonstrates the possibilities and efficiency of using approximate models for investigating traditional and nontraditional problems of penetration mechanics Different chapters in the book are devoted to different classes of problems and can be read independently Each chapter is self contained which includes a comprehensive literature survey of the topic and carries a list of used notations The bibliography includes more than 700 references This monograph is a reliable and indispensable reference guide for anyone interested in using engineering models in high speed penetration mechanics

Concrete Structures Under Projectile Impact Qin Fang, Hao Wu, 2017-03-22 In this book the authors present their theoretical experimental and numerical investigations into concrete structures subjected to projectile and aircraft impacts in recent years Innovative approaches to analyze the rigid mass abrasive and eroding projectile penetration and perforation are proposed Damage and failure analyses of nuclear power plant containments impacted by large commercial aircrafts are numerically and experimentally analyzed Ultra high performance concrete materials and structures against the projectile impact are developed and their capacities of resisting

projectile impact are evaluated This book is written for the researchers engineers and graduate students in the fields of protective structures and terminal ballistics **World Scientific Handbook Of Experimental Results On High Speed Penetration Into Metals, Concrete And Soils** Gabi Ben-dor, Anatoly Dubinsky, Tov Elperin, 2016-08-18 This unique compendium contains a vast systematized data of 14 000 experiments on high velocity penetration into metals concrete reinforced concrete and geological media which were published in the open literature journal papers reports conference proceedings during the last 70 years Data presented in this edition are related to the initial and final stages of penetration and include parameters which characterize mechanical and geometric properties of the striker and the shield striking and residual velocities of projectile or depth of penetration changes of mass and size of projectile angles that determine the initial and residual position of the projectile ballistic limit velocity basic characteristics of plug and deformation of the shield Unified form of data representation and common notations are used throughout the book All information is presented in numerical form in SI units The book also contains indices which allow a fast search of the authors publications and related experiments Theoreticians design engineers and experimentalists will find this handbook a valuable reference material

Engineering Models In High-speed Penetration Mechanics And Their Applications (In 2 Volumes) Gabi Ben-dor, Anatoly Dubinsky, Tov Elperin, 2018-12-28 This two volume 1100 pages 38 chapters book is a significantly expanded revised and updated version of the monograph by the authors published in 2013 Ben Dor G Dubinsky A Elperin T High Speed Penetration Dynamics Engineering Models and Methods Singapore World Scientific Publishing Company The contents increased by 60% the number of titles in bibliography doubled and reached 1600 and the scope covers a range of new topics related to hypervelocity penetration along with high speed impact Presented material is structured into two parts The first part includes description and analysis of practically all known engineering models for calculating high speed penetration of projectiles into concrete metals geological shields adobe and gelatine The second part focuses on the use of approximate models for solving conventional and non standard problems of penetration mechanics including prediction and optimization of protective properties of monolithic and multi layered shields against high speed projectiles and space debris shape optimization of high speed projectiles penetrating into various media modelling of penetration and optimal control of penetrators equipped with jet thrusters and investigation of the efficiency and optimization of segmented projectiles The book includes comprehensive overviews on basic classes of problems in high speed penetration mechanics This is a indispensable reference guide for scientists engineers and students specializing in the field of high speed and hypervelocity penetration mechanics **Self-Consistent Methods for Composites** S.K. Kanaun, V. Levin, 2007-12-20 The theory of heterogeneous materials has been intensively developed during the past few decades The main reason for the interest of many researchers in this part of the mechanics of solids is the wide area of application of heterogeneous materials in modern material engineering Self consistent methods form a well known branch of the theory of heterogeneous materials In most

books devoted to the mechanics and physics of heterogeneous media the reader can find self consistent solutions But there are no books covering the entire spectrum of self consistent methods in application to the calculation of static and dynamic properties of heterogeneous materials This book has been written to cover this gap It is written for engineers because here they can find the equations for the effective properties of composites reinforced with various types of inclusions The main advantage of self consistent methods is that they give relatively simple equations for the effective parameters of composites Such equations for static and dynamic properties of matrix composites reinforced with various types of inclusions for porous media media with cracks and other defects for polycrystals etc are widely used in engineering practice and many new self consistent solutions are presented in the book This book is written also for scholars who wish to develop the theory of heterogeneous media In the book they will find the basic ideas and algorithms for the construction of self consistent solutions The book shows how these methods may be applied to composites with inclusions of complex structures

to problems of wave propagation for calculation of higher statistical moments of physical fields in composites Various ways for improving self consistent solutions are proposed and discussed **IUTAM Symposium on Elastohydrodynamics and Micro-elastohydrodynamics** R.W. Snidle, H.P. Evans, 2006-10-03 Structural Synthesis of Parallel Robots Grigore Gogu, 2009-05-01 This is the first book of robotics presenting solutions of uncoupled and fully isotropic parallel robotic manipulators and a method for their structural synthesis Part 1 presents the methodology proposed for structural synthesis Part 2 presents the various topologies of parallel robots generated by this systematic approach Many solutions are presented here for the first time The book will contribute to a widespread implementation of these solutions in industrial products

Armour Paul J. Hazell, 2022-09-20 Updated throughout for the new edition Armour Materials Theory and Design covers extant and emergent protection technologies driving advances in armour systems Covering materials theory and design the book has applications in vehicle ship personnel and building use Introducing a wide range of armour technologies the book is a key guide to the technology used to protect against both blasts and ballistic attacks Chapters cover bullets blasts jets and fragments as well as penetration mechanics The new edition builds on the previous one discussing ceramics and metallic materials as well as woven fabrics and composite laminates Detailing modern technology advancements the second edition has also been expanded to include improved explanations on shock mechanisms and includes significantly more figures and diagrams An essential guide to armour technology this book outlines key ways to implement protective strategies applicable for many types of conflict **IUTAM Symposium on Multiscale Modelling of Damage and Fracture Processes in**

Composite Materials Tomasz Sadowski, 2006-07-06 The IUTAM Symposium on Multiscale Modelling of Damage and Fracture Processes in Composite Materials was held in Kazimierz Dolny Poland 23-27 May 2005 The Symposium was attended by 48 persons from 15 countries During 5 day meeting 4 keynote lectures and 39 invited lectures were presented This volume constitutes the Proceedings of the IUTAM Symposium The main aim of the Symposium was to discuss the basic

principles of damage growth and fracture processes in different types of composites ceramic polymer and metal matrix composites cement and bituminous composites and wood Nowadays it is widely recognized that important macroscopic properties like the macroscopic stiffness and strength are governed by processes that occur at one to several scales below the level of observation starting from nanoscale Understanding how these processes influence the reduction of stiffness and strength is essential for the analysis of existing and the design of improved composite materials The study of how these various length scales can be linked together or taken into account simultaneously is particular attractive for composite materials since they have a well defined structure at the nano micro and meso levels The well defined microstructural level can be associated with small particles or fibres while the individual laminae can be indentified at the mesoscopic level Moreover the advances in multiscale modelling of damage and fracture processes to the description of the complete constitutive behaviour in composites which do not have a very well defined microstructure e g cementitious bitumous composites and wood was analysed

IUTAM Symposium on Topological Design Optimization of Structures, Machines and Materials Martin Philip Bendsoe, Niels Olhoff, Ole Sigmund, 2006-10-03 This volume offers edited papers presented at the IUTAM Symposium Topological design optimization of structures machines and materials status and perspectives October 2005 The papers cover the application of topological design optimization to fluid solid interaction problems acoustics problems and to problems in biomechanics as well as to other multiphysics problems Also in focus are new basic modelling paradigms covering new geometry modelling such as level set methods and topological derivatives

Fracture Mechanics Huy Duong Bui, 2007-01-03 This book is an outgrowth of my involvement in two groups of research in solid mechanics created in 1960 for the French nuclear energy program At this time it was decided that France as a no oil reservoir country must be powered by nuclear energy which represents today 80% of the total tional energy supply Long before the construction of the first nuclear plant at Fessenheim in 1973 Electricit de France EdF created its first solid mechanics laboratory appointed researchers and sent them to the universities or abroad in order to learn about theories and new methods of assessment of the safety of structures Working at EdF I was training in Professor Jean Mandel s laboratory at Ecole Polytechnique LMS Paris My friend Ren Labbens working at Framatome the builder of nuclear plants was training at the Lehigh University under the guidance of professors G R Irwin and G C Sih We had to work hard both academically at the u versities laboratories and performing engineering tasks for our employer This dual position was a great chance for many of us since we discovered that real industrial problems are the source of new subjects and research problems to be solved by theoreticians in the universities and conversely we immediately knew if our theoretical work was good or not for appli tions as revealed in our daily works conducted for our industrial employer

Applied Mechanics Reviews ,1973 **IUTAM Symposium on Mechanical Behavior and Micro-Mechanics of Nanostructured Materials** Y.L. Bai, Q.S. Zheng, Y.G. Wei, 2007-04-05 This volume contains the proceedings of the IUTAM Symposium on Mechanical Behavior and Micro

mechanics of Nanostructured Materials held in Beijing on June 27 30 2005 The proceedings consist of approximately 30 presentations Nano scale micro scale theoretical experimental and numerical aspects of the subjects are covered A wide scope of research and progress are displayed This is the first work in print on this particular subject **IUTAM Symposium on One Hundred Years of Boundary Layer Research** Hans-Joachim Heinemann,G.E.A. Meier,K.R.

Sreenivasan,2006-12-20 This book collects peer reviewed lectures of the IUTAM Symposium on the 100th anniversary of Boundary Layer research No other reference of this calibre on this topic is likely to be published for the next decade Covers classification definition and mathematics of boundary layers instability of boundary layers and transition boundary layers control turbulent boundary layers numerical treatment and boundary layer modelling special effects in boundary layers

Optimal Structural Design Nikolay V. Banichuk,Svetlana Yu. Ivanova,2017-09-11 This monograph studies optimization problems for rigid punches in elastic media and for high speed penetration of rigid strikers into deformed elastoplastic concrete and composite media using variational calculations tools from functional analysis and stochastic and min max guaranteed optimization approaches with incomplete data The book presents analytical and numerical results developed by the authors during the last ten years *Reanalysis of Structures* Uri Kirsch,2008-02-24 This book deals with various

computational procedures for multiple repeated analyses reanalysis of structures and presents them in a unified approach It meets the need for a general text covering the basic concepts and methods as well as recent developments in this area To clarify the presentation many illustrative examples and numerical results are demonstrated Previous books on structural analysis do not cover most of the material presented here Joyce in the Belly of the Big Truck; Workbook Joyce A.

Cascio,2005-05 Mathematical Modeling and Optimization of Complex Structures Pekka Neittaanmäki,Sergey Repin,Tero Tuovinen,2015-10-07 This volume contains selected papers in three closely related areas mathematical modeling in mechanics numerical analysis and optimization methods The papers are based upon talks presented on the International Conference for Mathematical Modeling and Optimization in Mechanics held in Jyväskylä Finland March 6 7 2014 dedicated to Prof N Banichuk on the occasion of his 70th birthday The articles are written by well known scientists working in computational mechanics and in optimization of complicated technical models Also the volume contains papers discussing the historical development the state of the art new ideas and open problems arising in modern continuum mechanics and applied optimization problems Several papers are concerned with mathematical problems in numerical analysis which are also closely related to important mechanical models The main topics treated include Computer simulation methods in mechanics physics and biology Variational problems and methods minimization algorithms Optimal control problems with distributed and discrete control Shape optimization and shape design problems in science and engineering Sensitivity analysis and parameters optimization of complex systems Proceedings of the 14th International Scientific Conference: Computer Aided Engineering Eugeniusz Rusiński,Damian Pietrusiak,2019-03-09 This book presents the proceedings of the 14th

International Conference on Computer Aided Engineering collecting the best papers from the event which was held in Wrocław Poland in June 2018 It includes contributions from researchers in computer engineering addressing the applied science and development of the industry and offering up to date information on the development of the key technologies in technology transfer It is divided into the following thematic sections parametric and concurrent design advanced numerical simulations of physical systems integration of CAD CAE systems for machine design presentation of professional CAD and CAE systems presentation of the modern methods of machine testing presentation of practical CAD CAM CAE applications designing and manufacturing of machines and technical systems durability prediction repairs and retrofitting of power equipment strength and thermodynamic analyses of power equipment design and calculation of various types of load carrying structures numerical methods of dimensioning materials handling and long distance transport equipment cranes gantries automotive rail air space and other special vehicles and earth moving machinery CAE integration problems The conference and its proceedings offer a major interdisciplinary forum for researchers and engineers in innovative studies and advances in this dynamic field

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