



Figure 2.4: Geometric representation of Hopkinson-Cranz blast wave scaling [1].

Hopkinson Cube Root Scaling

Geoffrey Mays



Hopkinson Cube Root Scaling:

Rock Blasting and Explosives Engineering Per-Anders Persson, Roger Holmberg, Jaimin Lee, 2018-05-04 Rock Blasting and Explosives Engineering covers the practical engineering aspects of many different kinds of rock blasting. It includes a thorough analysis of the cost of the entire process of tunneling by drilling and blasting in comparison with full face boring. Also covered are the fundamental sciences of rock mass and material strength, the thermal decomposition, burning, shock initiation and detonation behavior of commercial and military explosives and systems for charging explosives into drillholes. Functional descriptions of all current detonators and initiation systems are provided. The book includes chapters on flyrock, toxic fumes, the safety of explosives and even explosives applied in metal working as a fine art. Fundamental in its approach, the text is based on the practical industrial experience of its authors. It is supported by an abundance of tables, diagrams and figures. This combined textbook and handbook provides students, practitioners and researchers in mining, mechanical, building, construction, geological and petroleum engineering with a source from which to gain a thorough understanding of the constructive use of explosives.

Blast Effects on Buildings Geoffrey Mays, 1995 This guide is aimed at all engineers and architects involved in building design, focusing on the importance of constructing buildings which minimise damage to people and property in the event of an explosion.

Structural Design for Physical Security Task Committee on Structural Design for Physical Security, 1999-01-01 Prepared by the Task Committee on Structural Design for Physical Security of the Structural Engineering Institute of ASCE. This report provides guidance to structural engineers in the design of civil structures to resist the effects of terrorist bombings. As dramatized by the bombings of the World Trade Center in New York City and the Murrah Building in Oklahoma City, civil engineers today need guidance on designing structures to resist hostile acts. The U.S. military services and foreign embassy facilities developed requirements for their unique needs, but these documents are restricted. Thus, no widely available document exists to provide engineers with the technical data necessary to design civil structures for enhanced physical security. The unrestricted government information included in this report is assembled collectively for the first time and rephrased for application to civilian facilities. Topics include determination of the threat methods by which structural loadings are derived for the determined threat, the behavior and selection of structural systems, the design of structural components, the design of security doors, the design of utility openings and the retrofitting of existing structures. This report transfers this technology to the civil sector and provides complete methods, guidance and references for structural engineers challenged with a physical security problem.

Handbook for Blast Resistant Design of Buildings Donald O. Dusenberry, 2010-01-26 Unique single reference supports functional and cost efficient designs of blast resistant buildings. Now there is a single reference to which architects, designers and engineers can turn for guidance on all the key elements of the design of blast resistant buildings that satisfy the new ASCE Standard for Blast Protection of Buildings as well as other ASCE, ACI and AISC codes. The Handbook for Blast Resistant Design of Buildings features

contributions from some of the most knowledgeable and experienced consultants and researchers in blast resistant design. This handbook is organized into four parts. Part 1 Design Considerations sets forth basic principles examining general considerations in the design process, risk analysis and reduction criteria for acceptable performance, materials performance under the extraordinary blast environment and performance verification for technologies and solution methodologies. Part 2 Blast Phenomena and Loading describes the explosion environment, loading functions needed for blast response analysis and fragmentation and associated methods for effects analysis. Part 3 System Analysis and Design explains the analysis and design considerations for structural building envelope, component, space, site, perimeter and building system designs. Part 4 Blast Resistant Detailing addresses the use of concrete, steel and masonry in new designs as well as retrofitting existing structures. As the demand for blast resistant buildings continues to grow, readers can turn to the Handbook for Blast Resistant Design of Buildings, a unique single source of information to support competent functional and cost efficient designs.

Design Against Blast S. Syngellakis, 2013. Terrorist attacks and other destructive incidents caused by explosives have in recent years prompted considerable research and development into the protection of structures against blast loads. For this objective to be achieved, experiments have been performed and theoretical studies carried out to improve our assessments of the intensity as well as the space-time distribution of the resulting blast pressure on the one hand and the consequences of an explosion to the exposed environment on the other. This book aims to enhance awareness and understanding of these topical issues through a collection of relevant Transactions of the Wessex Institute of Technology articles written by experts in the field. The book starts with an overview of key physics-based algorithms for blast and fragment environment characterisation, structural response analyses and structural assessments with reference to a terrorist attack in an urban environment and the management of its inherent uncertainties. A subsequent group of articles is concerned with the accurate definition of blast pressure, which is an essential prerequisite to the reliable assessment of the consequences of an explosion. Other papers are concerned with alternative methods for the determination of blast pressure based on experimental measurements or neural networks. A final group of articles reports investigations on predicting the response of specific structural entities and their contents. The book concludes with studies on the effectiveness of steel reinforced polymer in improving the performance of reinforced concrete columns and the failure mechanisms of seamless steel pipes used in nuclear industry.

Structures Under Shock and Impact XI Norman Jones, C. A. Brebbia, 2010. This text examines the interaction between blast pressure and surface or underground structures, whether the blast is from civilian, military, dust and natural explosions or any other source.

Numerical Analysis and Modelling of Composite Materials J.W. Bull, 2012-12-06. Composite materials are increasingly used in many applications because they offer the engineer a range of advantages over traditional materials. They are often used in situations where a specified level of performance is required but where the cost of testing the materials under the extremes of those specifications is very high. In

order to solve this problem engineers are turning to computer Modelling to evaluate the materials under the range of conditions they are likely to encounter Many of these analyses are carried out in isolation and yet the evaluation of a range of composites can be carried out using the same basic principles In this new book the editor has brought together an international panel of authors each of whom is working on the analysis and Modelling of composite materials The overage of the book is deliberately wide to illustrate that similar principles and methods can be used to model and evaluate a wide range of materials It is also hoped that by bringing together this range of topics the insight gained in the study of one composite can be recognized and utilized in the study of others Professional engineers involved in the specification and testing of composite material structures will find this book an invaluable resource in the course of their work It will also be of interest to those industrial and academic engineers involved in the design development manufacture and applications of composite materials

Evaluation of the Effects and Consequences of Major Accidents in Industrial Plants Joaquim

Casal, 2007-12-08 Evaluation of the Effects and Consequences of Major Accidents in Industrial Plants analyzes the different major accidents which can occur in process plants and during the transportation of hazardous materials The main features of fires explosions and toxic releases are discussed and a set of mathematical models allowing the prediction of their effects and consequences are explained With a practical approach the models are applied to simple illustrative examples as well as to more complex real cases The use of these calculations in the frame of Quantitative Risk Analysis is also treated Evaluation of the effects of major accidents in industrial installations covers the following topics general introduction source term fire accidents vapour cloud explosions BLEVEs and vessel explosions atmospheric dispersion of toxic or flammable clouds vulnerability and quantitative risk analysis This book is a useful tool for engineering professionals as well as an interesting reference for teaching at graduate and post graduate levels Both the essential aspects and the calculations related to the diverse accidents are discussed The prediction of effects and consequences is performed with a practical approach Recent contributions from literature have been included Subjects of increasing importance have been included an extense analysis of BLEVEs for example or the atmospheric dispersion of pathogenic agents

Structural Modeling and Experimental

Techniques, Second Edition Harry G. Harris, Gajanan Sabnis, 1999-03-30 Structural Modeling and Experimental Techniques presents a current treatment of structural modeling for applications in design research education and product development Providing numerous case studies throughout the book emphasizes modeling the behavior of reinforced and prestressed concrete and masonry structures Structural Modeling and Experimental Techniques Concentrates on the modeling of the true inelastic behavior of structures Provides case histories detailing applications of the modeling techniques to real structures Discusses the historical background of model analysis and similitude principles governing the design testing and interpretation of models Evaluates the limitations and benefits of elastic models Analyzes materials for reinforced concrete masonry and steel models Assesses the critical nature of scale effects of model testing Describes selected laboratory

techniques and loading methods Contains material on errors as well as the accuracy and reliability of physical modeling Examines dynamic similitude and modeling techniques for studying dynamic loading of structures Covers actual applications of structural modeling This book serves students in model analysis and experimental methods professionals manufacturing and testing structural models as well as professionals testing large or full scale structures since the instrumentation techniques and overall approaches for testing large structures are very similar to those used in small scale modeling work

BALLISTICS 2016 Clive Woodley,Ian Cullis,2016-05-22 Presents high level research on various caliber guns cannon mortars drones warheads shells bullets drills and other launchers and penetrants as well as their impact effects on natural and designed materials including large scale targets and body armors Provides new modeling and test data on projectile design and guidance propellants charges and explosives for military aerospace and civil engineering applications Over 250 presentations in two printed volumes plus searchable CD This book makes available original ballistics technology from around the world on a wide variety of weapons and their effects including the design and trajectory stability control of dozens of projectiles ranging from shells to missiles The book's authors discuss the efficacy and development of propellants munitions and igniters and offer new approaches for modeling and testing Also investigated in Volume 1 are shielding and protection strategies for individual persons and other targets Volume 2 offers research on the mechanical behavior of multiple types of explosives as well as impact and penetration data from projectile effects on surfaces ranging from natural phenomena such as water and soils to metallic plating and material engineered armors Papers in these volumes were presented at a conference organized by the National Defense Industrial Association NDIA with the International Ballistics Society

Similarity Methods in Engineering Dynamics P.S. Westine,F.T. Dodge,W.E. Baker,2012-12-02 Here is the second revised and updated edition of probably the most practical sourcebook on similarity methods and modeling techniques available Written by leading authorities who incorporate many of the latest advances in the field this new work maps out techniques for modeling as well as instrumentation and data analysis for an extremely wide array of problems in engineering dynamics This practical reference uses experimental test data on various engineering problems demonstrating exactly how and why these similarity methods work The problems involve spread of oil slicks explosive cratering car crashes space vehicle heat exchange explosive forming and more The spectrum of topics covered and number of examples are far greater than in other texts Of particular importance are the dissimilar material modeling techniques which bring new versatility and freedom to the modeler in structural dynamics The book also contains a clear in depth discussion of the theory underlying modeling and includes alternate methods for developing model laws The work will undoubtedly prove invaluable to every professional involved in testing or design of dynamic experiments

Blast Effects Isabelle Sochet,2017-12-22 This book compiles a variety of experimental data on blast waves The book begins with an introductory chapter and proceeds to the topic of blast wave phenomenology with a discussion on Rankine Hugoniot equations and the Friedlander equation used to

describe the pressure time history of a blast wave Additional topics include arrival time measurement the initiation of detonation by exploding wires a discussion of TNT equivalency and small scale experiments Gaseous and high explosive detonations are covered as well The topics and experiments covered were chosen based on the comparison of used scale sizes from small to large Each characteristic parameter of blast waves is analyzed and expressed versus scaled distance in terms of energy and mass Finally the appendix compiles a number of polynomial laws that will prove indispensable for engineers and researchers

Explosion Hazards and Evaluation W.E. Baker,P.A. Cox,J.J. Kulesz,R.A. Strehlow,P.S. Westine,2012-12-02 Explosion Hazards and Evaluation presents the principles and applications of explosion hazards evaluation The text is organized into nine chapters Chapters 1 and 2 discuss the energy release processes which generate accidental explosions and the resulting development of pressure and shock waves in a surrounding atmosphere The manner in which the free field waves are modified in interacting with structures or other objects in their paths is discussed in Chapter 3 Structural response to blast loading and non penetrating impact is covered in two chapters with Chapter 4 including simplified analysis methods and Chapter 5 including numerical methods Chapter 6 includes a rather comprehensive treatment of generation of fragments and missiles in explosions and the flight and effects of impact of these objects Chapter 7 considers thermal radiation of large chemical explosions Explosions may or may not cause damage or casualty and various damage criteria have been developed for structures vehicles and people These criteria are presented in Chapter 8 General procedures for both the postmortem evaluation of accidental explosions and for design for blast and impact resistance are reviewed in Chapter 9 Engineers scientists and plant safety personnel will find the book very useful

Response of Enrico Fermi Reactor to TNT Simulated Nuclear Accidents W. R. Wise,1965 The MHA maximum hypothetical nuclear accident for the Fermi reactor has been postulated for the purpose of this report not to exceed in violence the detonation of 1000 pounds of TNT at the core location This report is addressed to predicting the structural response of Fermi to the MHA particularly the possible jump of the shield plug An extensive experimental program was conducted in which scaled charges of explosives some cased in molten sodium were detonated in idealized models of the Fermi reactor The results of this experimental program together with available theory indicate that the accident would be contained within the reactor shielding complex but that the 143 ton shield plug if unimpeded might be propelled as high as 102 feet and through the roof of the containment building In response to the findings of this extensive study the Fermi reactor will be equipped with an arrester that will prevent a hazardous plug jump in the unlikely event of a nuclear accident

Author **NOLTR**,1964 History of Shock Waves, Explosions and Impact Peter O. K. Krehl,2008-09-24 This unique and encyclopedic reference work describes the evolution of the physics of modern shock wave and detonation from the earlier and classical percussion The history of this complex process is first reviewed in a general survey Subsequently the subject is treated in more detail and the book is richly illustrated in the form of a picture gallery This book is ideal for everyone

professionally interested in shock wave phenomena

Granular Materials Under Shock and Blast Loading

Padmanabha Vivek, T. G. Sitharam, 2019-10-31 This volume discusses the fundamental dynamic behaviour of granular materials in particular cohesionless sand when subjected to shock and blast wave loading The contents of the book are mainly divided into three parts based on the type of loading imparted to the granular materials Shock wave loading step pulse Air blast loading Friedlander wave Buried blast loading It provides a comprehensive review of the available testing methods along with the necessary diagnostic measurements for material characterization making it useful for researchers working in the area of blast protection and Impact engineering

Multi-hazard Approaches to Civil Infrastructure

Engineering Paolo Gardoni, James M. LaFave, 2016-06-22 This collection focuses on the development of novel approaches to address one of the most pressing challenges of civil engineering namely the mitigation of natural hazards Numerous engineering books to date have focused on and illustrate considerable progress toward mitigation of individual hazards earthquakes wind and so forth The current volume addresses concerns related to overall safety sustainability and resilience of the built environment when subject to multiple hazards natural disaster events that are concurrent and either correlated e g wind and surge uncorrelated e g earthquake and flood cascading e g fire following earthquake or uncorrelated and occurring at different times e g wind and earthquake The authors examine a range of specific topics including methodologies for vulnerability assessment of structures new techniques to reduce the system demands through control systems instrumentation monitoring and condition assessment of structures and foundations new techniques for repairing structures that have suffered damage during past events or for structures that have been found in need of strengthening development of new design provisions that consider multiple hazards as well as questions from law and the humanities relevant to the management of natural and human made hazards

Recent Advances in Applied Mechanics and Mechanical Engineering

Sanjay Yadav, Harish Kumar, Meher Wan, Pawan Kumar Arora, Yusri Yusof, 2023-08-08 This book provides select proceedings of the 3rd International Conference on Applied Mechanics and Mechanical Engineering ICAMME 2022 It covers the latest research in the fields of mechanics and mechanical engineering Various topics covered in this book are engineering design machinery and machine elements mechanical structures and stress analysis automotive engineering engine technology aerospace technology and astronautics mechanical intelligent control and robotics mechatronics dynamical systems and control fluid mechanics industrial manufacturing and applied mechanics The book will be useful for researchers and professionals working in the various fields of mechanical engineering

Urban Habitat Constructions Under

Catastrophic Events Federico M. Mazzolani, 2010-08-27 COST is an intergovernmental framework for European Cooperation in Science and Technology allowing the coordination of nationally funded research on a European level Part of COST was COST Action C26 Urban Habitat Constructions Under Catastrophic Events which started in 2006 and held its final conference in Naples Italy on 16 18 September 201

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