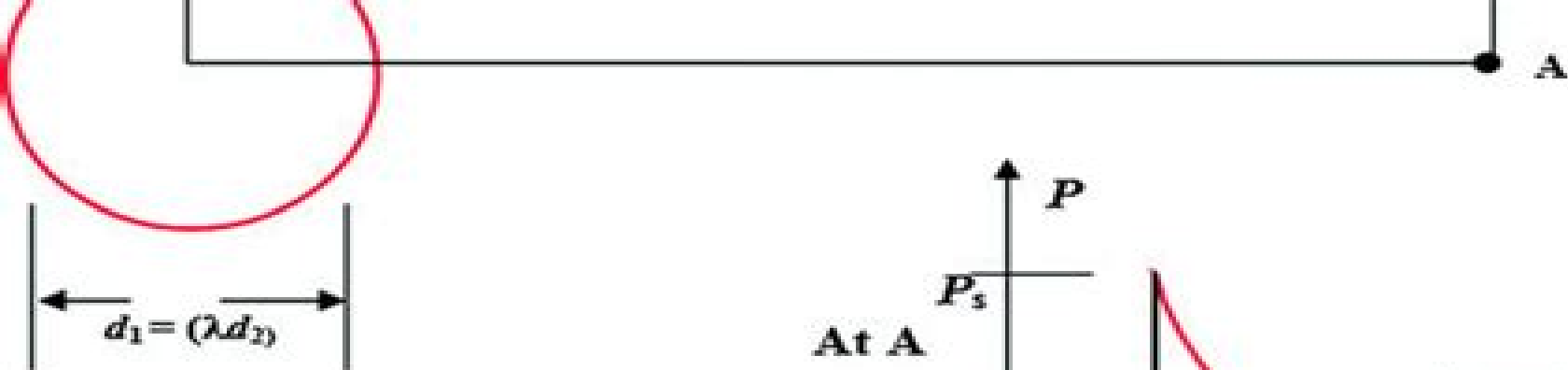
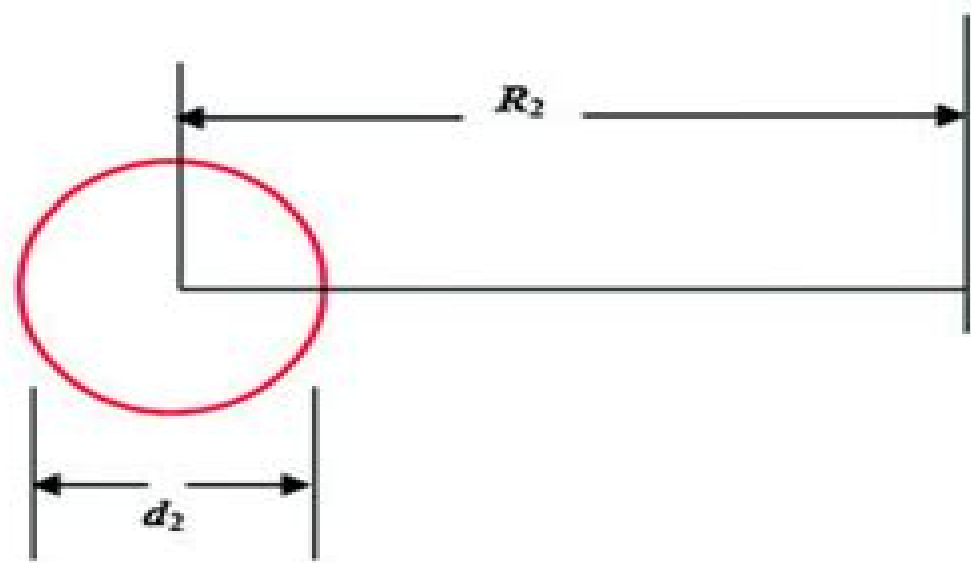
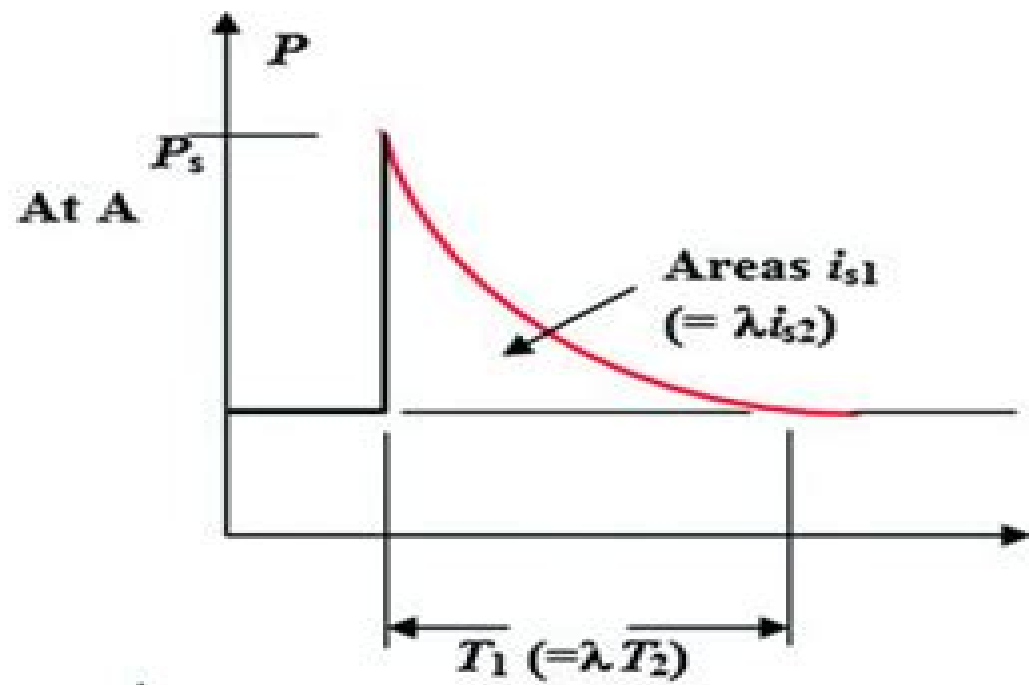


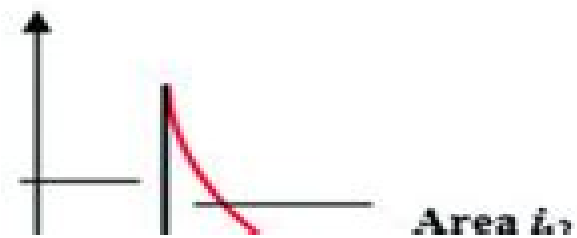


$$Z = R/W^{1/3}$$



$$t_{a1} = (\lambda t_{a2})$$

B



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Harry G. Harris, Gajanan Sabnis



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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.

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.

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 the 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 **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 *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

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 **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 s 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

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

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

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

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