



# **DESIGN OF REINFORCED CONCRETE BUILDINGS TO RESIST BLAST**

**NIALl MACALEVEY**

# Design Of Reinforced Concrete Buildings To Resist Blast

**U.S. Atomic Energy Commission**



## **Design Of Reinforced Concrete Buildings To Resist Blast:**

Design of Reinforced Concrete Buildings to Resist Blast Niall MacAlevey, 2014-11-26 Terrorism has become a serious threat in the world This threat cannot be ignored The main terrorist weapon is a bomb made from high explosives with civilian buildings being a common target Terrorists usually want to create chaos and maximize casualties A growing emphasis is therefore being placed on anti terrorism protection of civilian buildings It is recognized that iconic structures as well as structures where mass congregation is likely may be soft targets for attack Thus blast provisions are now an integral part of the design of major civilian facilities e g hospitals large hotels shopping centres stadia etc In addition buildings housing critical infrastructure e g electrical sub stations are other likely targets This book is about the effects of blast on civilian rather than military structures The latest forms of structural and glazing protection are discussed In practical design extensive use of software is usually made However this book covers design principles Hand calculations are emphasized so that a feel for the likely behaviour of the structure under blast loading is obtained Although the book is directly concerned with only RC buildings the principles can easily be extended to structural steel buildings *Blast Resistant Design Guide for Reinforced Concrete Structures* Steven John Smith, Dennis M. McCann, Mahmoud E. Kamara, 2009 This Guide provides a practical treatment of the design of cast in place low rise reinforced concrete structures to resist the effects of blast loads

Modern Protective Structures Theodor Krauthammer, 2008-02-01 In today's world reasonably predictable military operations have been replaced by low intensity conflicts less predictable terrorist activities carried out by determined individuals or small groups that possess a wide range of backgrounds and capabilities Because of the threats posed by this evolving type of warfare civil engineers and emergency personnel face new challenges in designing facilities to protect lives and property and in conducting effective rescue operations and forensic investigations Addressing these needs Modern Protective Structures develops realistic guidelines for the analysis design assessment retrofit and research of protected facilities After introducing a comprehensive risk management approach the author provides a general background on explosive devices and their capabilities as well as explosive effects and the processes that generate them He then discusses the effects of conventional and nuclear explosions The book subsequently considers the significant design differences between conventional and nuclear loads and between existing design procedures and state of the art information from recent research It also summarizes existing blast resistant design approaches and describes the dynamic responses of structural systems to blasts shocks and impacts Additional coverage includes the behavior of specific structural connections the traditional concept of P I diagrams and progressive collapse The book concludes with a systematic and balanced protective design approach Tackling the analytical design assessment and hazard mitigation issues associated with short duration dynamic loads this book examines how impulsive loads affect various types of buildings and facilities It provides the necessary material to help ensure the safety of persons assets and projects **Case Studies of Building Rehabilitation**

**and Design** João M. P. Q. Delgado, 2021-04-24 This book presents recent research works related to blast resistant buildings green roofs and sustainability retrofit interventions with C FRP fibers analysis of cracking in pile cap foundation by delayed ettringite formation and acoustic performance in buildings It demonstrates that building pathology is a holistic approach to studying and understanding buildings and in particular building defects or problems and associated rehabilitation actions Offering a systematic review of the current state of knowledge the book serves as a valuable resource for scientists students practitioners and lecturers in various scientific and engineering disciplines including civil and materials engineering as well as and other interested parties *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 **Structures to Resist the Effects of Accidental Explosions**, 1991 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 **Nuclear Explosion Effects on Structures and Protective Construction** U.S. Atomic Energy Commission, 1961 **Civil Defense Against Atomic Attack** United States. Congress. Joint Committee on Atomic Energy, 1950 **Hearings** United States. Congress. Joint Committee ..., 1949 **Hearings** United States. Congress. Joint Committee on Atomic Energy, 1950 **TID.**, 1961 **Performance, Protection and Strengthening of Structures under Extreme Loading** Ezio Cadoni, Marco di Prisco, 2011-07-27 Selected peer reviewed papers from the Third International Workshop on Performance Protection and Strengthening of Structures under Extreme Loading PROTECT 2011 30 August 1 September 2011 Lugano Switzerland Proceedings of the Conference on Building in the Atomic Age, 1952

**Applications of Structural Materials for Protection from Explosions** Brigitte Battat,2001      **"Code of Massachusetts regulations, 2005"** ,2005 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020      *"Code of Massachusetts regulations, 2006"* ,2006 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020      **"Code of Massachusetts regulations, 2000"** ,2000 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020      **"Code of Massachusetts regulations, 2004"** ,2004 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020      **Concrete and Constructional Engineering** ,1908

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