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The high pressure of the air-blast that enters through broken windows can cause eardrum damage and lung collapse. As the air-blast damages the building components in its path, missiles are generated that cause impact injuries. Airborne glass fragments typically cause penetration or laceration-type injuries.

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Blast Effects on Buildings Buildings experience the effects of explosions in several stages: The initial blast wave typically shatters windows and causes other damage to the building facade. It also exerts pressure on the roof and walls that are not directly facing the blast, sometimes damaging them as well.

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3. Blast Effects on Buildings and People: A Primer for ...
Blast Effects On Buildings Thomas Telford Blast Effects on Buildings is an indispensable guide to help engineers reduce the risks posed to building occupants and businesses by terrorist and other explosions. The third edition of this highly regarded text, lead authored by Arup Associate Director David Cormie, has been fully revised and expanded to

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Reflects developments in the field of blast engineering since the early 1990s. Combining coverage of the design standards, codes and materials with an appreciation of the needs and demands of the designer, this book provides the engineer with a comprehensive source of reference for the main elements of blast engineering design in modern practice.

Providing the latest practical guidance on designing buildings to optimise their resilience to blast loading, this text is focused specifically on the design of commercial buildings. It helps engineers reduce the risks posed to building occupants and businesses from terrorist and other explosions.

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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.

Unique single reference supports functional and cost-efficientdesigns 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 thedesign of blast resistant buildings that satisfy the new ASCEStandard for Blast Protection of Buildings as well as other ASCE,ACI, and AISC codes. The Handbook for Blast Resistant Design ofBuildings features contributions from some of the mostknowledgeable and experienced consultants and researchers in blastresistant design. This handbook is organized into four parts: Part 1, Design Considerations, sets forth basic principles,examining general considerations in the design process; riskanalysis and reduction; criteria for acceptable performance;materials performance under the extraordinary blast environment;and performance verification for technologies and solutionmethodologies. Part 2, Blast Phenomena and Loading, describes the explosionenvironment, loading functions needed for blast response analysis,and fragmentation and associated methods for effects analysis. Part 3, System Analysis and Design, explains the analysis anddesign considerations for structural, building envelope, componentspace, site perimeter, and building system designs. Part 4, Blast Resistant Detailing, addresses the use ofconcrete, steel, and masonry in new designs as well as retrofittingexisting structures. As the demand for blast resistant buildings continues to grow,readers can turn to the Handbook for Blast Resistant Design ofBuildings, a unique single source of information, to supportcompetent, functional, and cost-efficient designs.

With the upsurge in terrorism in recent years and the possibility of accidental blast threats, there is growing interest in manufacturing blast ‘hardened’ structures and retrofitting blast mitigation materials to existing structures. Composites provide the ideal material for blast protection as they can be engineered to give different levels of protection by varying the reinforcements and matrices. Part one discusses general technical issues with chapters on topics such as blast threats and types of blast damage, processing polymer matrix composites for blast protection, standards and specifications for composite blast protection materials, high energy absorbing composite materials for blast resistant design, modelling the blast response of hybrid laminated composite plates and the response of composite panels to blast wave pressure loadings. Part two reviews applications including ceramic matrix composites for ballistic protection of vehicles and personnel, using composites to protect military vehicles from mine blasts, blast protection of buildings using FRP matrix composites, using composites in blast resistant walls for offshore, naval and defence related structures, using composites to improve the blast resistance of columns in buildings, retrofitting using fibre reinforced polymer composites for blast protection of buildings and retrofitting to improve the blast response of concrete masonry walls. With its distinguished editor and team of expert contributors, Blast protection of civil infrastructures and vehicles using composites is a standard reference for all those concerned with protecting structures from the effects of blasts in both the civil and military sectors. Reviews the role of composites in blast protection with an examination of technical issues, applications of composites and ceramic matrix composites Presents numerical examples of simplified blast load computation and an overview of the basics of high explosives includes important properties and physical forms Varying applications of composites for protection are explored including military and non-military vehicles and increased resistance in building columns and masonry walls

This book presents selected papers from the 7th International Congress on Computational Mechanics and Simulation, held at IIT Mandi, India. The papers discuss the development of mathematical models representing physical phenomena and apply modern computing methods to analyze a broad range of applications including civil, offshore, aerospace, automotive, naval and nuclear structures. Special emphasis is given on simulation of structural response under extreme loading such as earthquake, blast etc. The book is of interest to researchers and academics from civil engineering, mechanical engineering, aerospace engineering, materials engineering/science, physics, mathematics and other disciplines.

Describes the response of structures to blast and ballistic loading. This text brings together the key elements of the loads produced from explosive sources, how they interact with structures and the way structures respond to them. It presents information accessibly, avoiding overuse of maths.

The present doctoral dissertation contributes to the analysis of glass panels subjected to blast load, concentrating on monolithic and laminated glass prior to glass fracture. A straightforward graphical solution for monolithic glass is presented to identify maximum deformation and maximum principal stress for small and large deformations for static and idealized blast load without software. On the basis of experimental tests, load duration factors kmod for impact and blast load design for annealed glass, heat strengthened glass and fully tempered glass are proposed. In addition, design strength values for impact and blast design based on the European and German standards are suggested. As a result, blast pressure capacity charts for monolithic fully tempered glass plates subjected to idealized blast load are presented. Moreover, design temperatures of interlayer in blast design situation based on empirical data in accordance with Eurocode are determined for vertical double glazed and triple glazed units for Germany, showing that laminated glass should not be regarded with monolithic glass approach in general.

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.