



# Explosion-Resistant Buildings: Design, Analysis, and Case Studies

*T. Bangash*



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Many nations have become victims of terrorism. Bombs have exploded in and around buildings and other structures. Such events have generated considerable concern over the ability of countries and governments to protect installations and their occupants against a potential threat of terrorism. Many countries have established defence agencies and research councils who are currently examining the structural integrity of existing buildings and other vital installations. In some countries codified methods have been developed together with the design methodologies and construction techniques to try to protect old installations against vehicle bomb effects in particular. The purpose of this book is to give an exhaustive study of buildings structures resisting explosion with and without external/internal impact and caused by such effects. A number of case studies with damage scenarios are included. The book is divided into various chapters. Chapter 1 gives a review of bomb-affected buildings. Case studies including Alfred P. Murrah Federal Building in Oklahoma and World Trade Center (WTC) Twin Towers in New York have been given a wide coverage. Notable explosions in the world with relevant data are tabulated. After the sethage scenario of the Pentagon building is fully described. This chapter now resorts to the availability of data on major explosive elements, their ingredients and material properties.



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