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TRI-SERVICE REGULATORY DESIGN MANUAL "STRUCTURES TO RESIST THE EFFECTS OF ACCIDENTAL EXPLOSIONS" (TM 5-1300, NAVFAC P-397, AFM 88-22) C. Angelo Castellano, Joseph Caltagirone, ARRADOM Frederick E. Sock, Norval Dobbs, Ammann & Whitney ABSTRACT Initial guidance in the field of protective structures design was provided in 1969 with the publication of the Tri-Service Design Manual 'Structures to Resist the Effects of Accidental Explosions' (TM 5-1300, NAVFAC P-397, AFM 88-22).

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TM-Technical Manuals - Army Publishing Directorate Army ... NAVFAC P-397, and Air Force AFR 88-22, Revision 1 (TM 5-1300) to UFC 3-340-02. These figures are now consistent with previous tri-service manual. • Added supplementary minimum lap splice requirements, previously provided in TM 5-1300, and introduced guidance on acceptable applications of non-contract lap splices to section 4-21.7

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STRUCTURES TO RESIST THE EFFECTS OF ACCIDENTAL EXPLOSIONS  
Abstract. UFC 3-340-02, "Structures to Resist the Effects of Accidental Explosions," was recently approved by the Services. Publication of UFC 3-340-02 represents the culmination of a 5-year, Department of Defense Explosives Safety Board (DDESB) effort to update DoD's mandatory blast design requirements for explosives safety applications, as provided in Army TM 5-1300/NAVFAC P-397/AFR 88-22 (TM 5-1300), revision 1, November 1990.

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Overview of UFC 3-340-02 Structures to Resist the Effects ... ARMY TM 5-1300 PDF. TM ( ) Design of Structures to Resist the Effects of Accidental Explosions. Technical Manual, US Department of the Army, Washington DC. In March , the Department of Defense Explosives Safety Board (DDESB) established a technical working group to update the tri-service blast design. ARMY TM NAVY NAVFAC P AIR FORCE AFR 88- TRUCTURES TO RESIST.

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1) Effects of blast pressure on the human body  
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Table 1 also shows the maximum wind speed associated with the given overpressure. In mine explosions, as in war-related explosions, it is the blast wind resulting from the blast

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The course content is primarily based on the tri-service documents -  
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Manual No.5-1300, Navy Manual No. NAVFAC P-397, Air Force...

Initial guidance in the field of protective structures design was  
provided in 1969 with the publication of the Tri-Service Design  
Manual Structures to Resist the Effects of Accidental Explosions (TM  
5-1300), NAVFAC P-397, AFM 88-22). The manual presents procedures for  
determining the blast effects resulting from an explosion and  
techniques for the design of reinforced concrete structures subjected  
to blast loads. A considerable amount of data, much of it not covered  
in the current manual, has been accumulated since its publication.

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This information has brought about the urgent requirement for revising the manual. This paper briefly describes the topics in the manual that will be revised, those that will be added, the format of the new manual, and the various committees set up to oversee the revision. (Author).

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.

Procedures for structures designed to resist the effects of HE type explosions are presently available in the Tri-Service Design Manual Structures to Resist the Effects of Accidental Explosions (TM 5-1300, NAVFAC P-397, AFM 88- 22). However, these procedures are limited to reinforced concrete structures. Since its original publication, a considerable amount of data has been generated which brought about the requirement to revise existing procedures in the manual and incorporate new data. This describes the differences between the old and new manual and discusses the additional data incorporated in the new manual.

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The confluence of the September 11, 2001 terrorist attack and the U.S. Army's historic role to support civil authorities has resulted in substantial new challenges for the Army. To help meet these challenges, the Assistant Secretary of the Army for Research and Technology requested the National Research Council (NRC) carry out a series of studies on how science and technology could assist the Army prepare for its role in homeland security (HLS). The NRC's Board on Army Science and Technology formed the Committee on Army Science and Technology for Homeland Security to accomplish that assignment. The Committee was asked to review relevant literature and activities, determine areas of emphasis for Army S&T in support of counter terrorism and anti-terrorism, and recommend high-payoff technologies to help the Army fulfill its mission. The Department of Defense Counter-Terrorism Technology Task Force identified four operational areas in reviewing technical proposals for HLS operations: indications and warning; denial and survivability; recovery and consequence management; and attribution and retaliation. The study sponsor asked the Committee to use these four areas as the basis for its assessment of the science and technology (S&T) that will be important for the Army's HLS role. Overall, the Committee found that: - There is potential for substantial synergy between S&T work carried out by the Army for its HLS responsibilities and the development of the next generation Army, the Objective Force. - The Army National Guard (ARNG) is critical to the success of the Army's HLS efforts.

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