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DTIC ADP000471: Structures to Resist the Effects of ...

TM-5-1300 (1990) Design of Structures to Resist the Effects of Accidental Explosions. US Department of the Army Technical Manual, Washington DC. has been cited by the following article: TITLE:

Strain Rate Effect on the Response of Blast Loaded Reinforced Concrete Slabs.

AUTHORS: Kamel S. Kandil, Mouhamad T. Nemir, Ehab A. Ellobody, Ramy I. Shahin

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Army Technical Manual Tm 5 1300 (2), TM-5-1300 (1990) Design of Structures to Resist the Effects of Accidental Explosions. Army Technical Manual Tm 5 1300 Get Free Tm 5 1300 Structures To Resist The Effects Of Accidental Explosions International Colloquia on Thermal Innovations: High Thermal Conductivity Materials – July 22, 2020 by MIT Mechanical Engineering 3 weeks ago 1 hour, 27 minutes 357 OF 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
Tm 5 1300 Structures To
fatalities. (Glasstone and Dolan, 1977; TM 5-1300, 1990) 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 overpressure that leads to injuries and fatalities. The human body may be thrown
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TM 5-1300 : STRUCTURES TO RESIST THE EFFECTS OF ACCIDENTAL ...
TM 5-1300 Structures to Resist the Effects of Accidental Explosions . Date: 10-31-1990. Status: Archive (Canceled) Change Notice: Superseded by UFC 3-340-02. The purpose of this manual is to present methods of design for protective construction used in facilities for development, testing, production, storage, maintenance, modification ...
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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 ...
TM-5-1300 (1990) Design of Structures to Resist the ...
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TM-5-1300 (1990) Design of Structures to Resist the Effects of Accidental Explosions. Technical Manual, US Department of the Army, Washington DC. has been cited by the following article: TITLE: Implicit and Explicit Analysis of the Response of Blast Loaded Reinforced Concrete Slabs Overview of UFC 3-340-02 Structures to Resist the Effects ...
TM 5-1300 PDF - 28 Aug Changes to Technical Manual Governing Shear Reinforcing the latter case, the new TM permits the use of shear reinforcement in the. TM
STRUCTURES TO
Revision of Army Technical Manual 5-1300/NAVFAC

P-397/AFR ...
When first published in 1969, TM 5-1300 (Department of the Air Force, 1969) represented the state-of-the-art in the analysis and design of blast resistant structures. Based primarily on explosive tests of reinforced concrete walls, the manual provided a comprehensive introduction to the blast design process including load calculation, dynamic analysis, structural design, and detailing. Penn State Engineering: Inspiring Change, Impacting Tomorrow
When first published in TM Department of the Air Force, represented the state-of-the-art in the analysis tm 5-1300 design tm 5-1300 blast resistant structures. These studies will be reviewed and the topics pertinent to the subject of the manual will be incorporated.
1) Effects of blast pressure on the human body
'Structures to Resist the Effects of Accidental Explosions" (TM 5-1300, NAFVAC 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 TM-5-1300 (1990) Design of Structures to Resist the ...
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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), NAFVAC P- 397, AFM 88-22).

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TM 5-1300/NAVFAC P-397/AF 88-22 As for the case of an air burst, the curves presented in Figures 2-15 and 2-16 which give the blast wave parameters as a function of scaled distance, extend only to a scaled distance $Z = 100 \text{ ft}/|b|^{1/3}$ (see section 2-13.1). Blast parameters for explosives detonated on the ground surface other than