

About Civil Engineering

IS Codes And Uses

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- 2] IS 800 : 2007 — Steel (LSM)
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S Ben Porath



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Facility Requirements, 1996 *Free-field Particle Motion from a Nuclear Explosion in Salt* J. D. Eisler, H. V. Hoffman, 1966 *Technical Abstract Bulletin* Defense Documentation Center (U.S.), 1967 *Effects of Relative Density and Pulse Duration on Dynamic Response of Footings Buried in Sand* Jack K. Poplin, Paul F. Hadala, 1969 [Effect of Saturation on Dynamic Response of Footings in Sand](#) Jack K. Poplin, 1970 This investigation was undertaken to determine the effect of saturation of dense sand on the response of square footings to nuclear blast type loading Tests were conducted with footings on the surface and at a depth of burial equal to the footing width with a water table coincident with the plane of the footing The results of these tests were compared with data from similar tests on dry sand from a preceding study Saturation of dense sand had the effect of reducing maximum displacement The displacements of surface footings were only about 30 percent of the displacement of footings on dry sand with equivalent soil density and loading condition and the displacement of shallow buried footings was reduced by 50 percent Empirical load displacement curves developed from previous studies on dry sand were shown to be conservative when used to predict the response of footings on saturated dense sand The primary difference in response occurred after peak reaction The footings on saturated dense sand came to rest immediately while footings on dry sand continued to displace for some short distance This behavior was attributed to the development of transient negative pore pressures resulting from dilation of the sand A similar laboratory investigation on a medium density sand is recommended in order to determine whether or not any tendency toward liquefaction may occur at the lower end of the range of densities of interest for protective structure foundations Author **Hydrodynamic Shock Pressure Gage** A. J. Chabai, Robert C. Bass, H. L. Hawk, R. C. Bass, 1963 **Failure of Footing-supported Buried Steel Arches Loaded Statically** John F. Munn, Gary L. Carre, Gary Lee Carre, Thomas E. Kennedy, 1970 ["Code of Massachusetts regulations, 2016"](#), 2016 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 [University of Cincinnati Bulletin](#), 1940 *The Ohio State Engineer*, 1928 *In-structure Motion Measurements, Project LN315, Operation Prairie Flat* Thomas Edward Kennedy, 1970 *Technical Report - Civil Engineering Laboratory, Naval Construction Battalion Center, Port Hueneme, California* Naval Civil Engineering Laboratory (Port Hueneme, Calif.), 1980 **Constitutive Property Tests on Tuff to Determine Rate Effects** John Q. Ehr Gott, 1973 The report documents the results of a limited number of static and dynamic tests on one tuff from the location of the Diamond Mine Event tunnel at the Nevada Test Site The tests comprised the first experimental study conducted in the then newly developed dynamic high pressure triaxial test device The purpose of the study was to determine loading rate effects on the uniaxial strain hydrostatic compression and triaxial shear response of that tuff when loaded statically approximately 2 minutes to peak stress and dynamically approximately 20 msec to peak stress The results indicated that rate effects were of secondary importance when compared with the effects of variation of water content of specimens

Primary consideration should be given to testing the tuff at its in situ water content Author *The United States Government Internet Manual*, 2008 Site Investigations Civil Engineering Codes of Practice Joint Committee, 1950 *Standard Occupational Classification*, 1990 Influence of Backfill Properties on the Collapse of Pipes Under Dynamic Loads James L. Drake, Charles E. Joachim, 1973 Important to the successful stemming and containment of underground nuclear explosions is the ability of ground shock pressures generated by an explosion to collapse the line of sight LOS pipe for a significant distance from the zero point Prior to this study the influence of the strength and density of the various grouts used to couple the steel LOS pipe to the parent rock on the collapse of the LOS pipe was not known except in general qualitative terms Dynamic tests were conducted on a copper tube embedded in grouts of various physical properties and explosively loaded by a traveling detonation wave The grouts were chosen to be representative of those used at the Nevada Test Site and to provide a significant range of strength and density All tests were conducted underwater to ensure explosive coupling and to facilitate measurement of the dynamic pressures generated by the explosion A theoretical analysis of a typical test cross section was made assuming the tubing and the grouts to behave as rigid plastic materials and the traveling load to be stationary Modified author abstract Catalogue University of Cincinnati, 1951 **A Feasibility Study of Nuclear Fireball Simulation** D. W. Baum, 1970 The report describes the initial phase of an experimental program designed to assess the feasibility of simulating the thermal environment of a high temperature nuclear fireball A high performance explosively driven shock tube is used to produce temperatures from 10 000 K to 100 000 K in xenon gas The Boltzmann number and optical depth in the gas are chosen to match the fireball environment Radiative energy transfer dominates conductive and convective processes in a nuclear fireball as measured by the Boltzmann number so that it is possible to achieve fireball simulation with a gas other than air Xenon was chosen for its thermodynamic compatibility with state of the art explosively driven shock tubes The fireball simulator is primarily useful in providing a definitive experimental test of prediction codes for fireball thermal effects for obtaining data on the energy transport properties of ablated surface materials and for developing and testing fireball instrumentation concepts Author *Annual Catalogue* University of Cincinnati, 1951

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