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The Lone Tree Planning Commission
discussed the proposed improvement plan

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for the development of a site at Lincoln Station during a meeting on July 13. The site spans 5.23 acres and will include 425 ...

Lincoln Station plan passes review in
Lone Tree

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Introducing the theoretical, testing and control aspects of structural dynamics and vibration, this straightforward text, primer and reference opens up the dynamic behavior of structures and provides ...

Chapter 6: Introduction to Multi-Degree-

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Of-Freedom Systems

Telangana Retired Engineers' Association
(TREA ... Bachawat Tribunal (KWDT-I)
had awarded en-block share of 811 tmc ft
of assured water to erstwhile Andhra
Pradesh – for Andhra and Telangana ...

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Settle water row through talks: engineers' body tells Telangana, Andhra Pradesh
The approach of making use of universal building blocks to create diverse multifunctional hierarchical structures has been successfully applied in current macroscale engineering paradigms.

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Deformation and failure of protein materials in physiologically extreme conditions and disease

A representative from a civil engineering firm unveiled a plan to build a reliable regional network that will bust monopolies and expand internet access through public-

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private partnerships at ...

City, county pushing for better internet
service

Chandrasekhar Rao, despite AP's moves,
had asserted that Telangana would put up
an uncompromising fight for its rightful

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share of Krishna water and would start drawing 50% of 811 tmcft ...

Power generation stopped at
Nagarjunasagar as inflows recede
Dr. Polson's research interests include
community engagement; civil society; the

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intersection of religion and civic life; and the work of non-profit organizations and voluntary associations. Dr.

Edward C. Polson

Truett Theological Seminary, and the School of Education. Boddie is also a non-

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resident senior fellow at the University of Pennsylvania's Program for Research on Religion & Urban Civil Society and an ...

Stephanie Boddie

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information view our media ... which says
that up to 811 million people people
globally are undernourished — with ...

Science key to food system overhaul, UN
summit hears

SUPERVISED CASE REVIEWS: Justice

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Brown, Court 21, Floor 6, 9:00 AM:
ADDCAR ENGINEERS CIVIL
SERVICES DIVISION ... 1229 and enter
the Conference ID 260 811 561# before
the start of the hearing.

Everyone appearing in Brisbane court

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today

An 811 NMC cathode and a graphite anode cell were selected ... Head of Powertrain and Electronics, who previously led battery engineering at Tesla. Commenting on the achievement, he said: "Since the ...

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Joby Completes Flight of More Than 150
Miles with Electric Vertical Take-Off Air
Taxi

Eagle Holdings Pty Ltd, ABN:
99000701173, Main Business Location:
NSW 2114, Notice Date: April 8, 2021,
Liquidator: Daniel Jean Civil Ecl Group ...

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James Barnden Tucco Engineering Pty
Ltd, ABN ...

The report documents the results of an

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airblast-induced ground-shock calculation performed at the U.S. Army Engineer Waterways Experiment Station (WES) for the Operation Prairie Flat 500-ton high-explosive (HE) event. A WES-modified version of the 2D axisymmetric LAYER Code developed by the Paul Weidlinger firm was used for the investigation. Each

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layer of the soil profile was mathematically modeled with a nonlinear elastic-plastic-compacting type constitutive model that provided good fits to the available material property test data. Field airblast measurements were used to develop an airblast routine suitable for code input. The code results, carried to

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300 msec of real time, showed good quantitative and qualitative agreement with the field ground-motion measurements in regions outside the crater zone. The calculations reported herein represent initial efforts at WES to conduct comprehensive parametric studies of the effectiveness of contemporary

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mathematical constitutive models in predicting airblast-induced ground motions for several high-explosive field tests. The overall research program includes study of the influences of computational details such as boundary conditions, grid size, and time step and comparative analyses of the calculated

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ground motions and those recorded during the field test events. (Author).

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

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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

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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

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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).

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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

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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

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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).

A dynamic high-pressure triaxial test device was developed for use in

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formulating soil and rock constitutive relations used in blast-induced ground shock calculations. The device is capable of imposing controlled impulsive-type confining pressures up to 15 kips/sq in on specimens up to 3 inches in diameter; peak pressures can be achieved in as little time as 3 msec, and all pressure can be

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removed in 20 msec. These dynamic confining pressures can be time-synchronized with similar dynamic axial load pulses with magnitudes up to 100 kips. (Author).

A limited laboratory testing program was conducted on materials cored from two

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tunnels at the Nevada Test Site, Mercury, Nevada. The materials were grouped into three different tuffs. The purposes of the study were to investigate the loading-rate effects and the response characteristics of the materials from the two tunnels. Both static (rise time of approximately 1 minute) and dynamic (rise time of 2 to 50

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msec) hydrostatic and triaxial shear tests were conducted in the U.S. Army Engineer Waterways Experiment Station's new dynamic high-pressure triaxial test device. Although the test program was very limited, the test data to provide some insight into the hydrostatic and shear response of the tuff materials tested.

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(Author).

A general-purpose test facility for determining the one-dimensional compression characteristics of soils subjected to impulse-type loads has been developed in order to help satisfy the ever-increasing demand for reliable soil-

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property data required in support of a wide variety of nuclear-weapons-effects-related problems. The design, fabrication, installation, and evaluation of the various elements which together comprise the test facility were accomplished. The various considerations involved in the design and evaluation of the newly developed test

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facility are discussed in detail, thus providing some insight into the types of factors which affect the experimental-accuracy capability of a one-dimensional compression test facility and thereby the reliability of the data obtained under any particular set of conditions. (Author).

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One of the most severe problems in laboratory or field studies of ground shock in soils is the measurement of earth pressures, since measured results are often erratic. These erratic results may result from the way the gage is placed in the soil rather than from the gage itself. This study is an investigation of the effect of several

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arbitrarily chosen placement methods on the static response of SE (steel-epoxy) soil stress gages in dense sand and stiff clay. It illustrates that the way the gage is placed has a significant influence on both the overregistration ratio and the scatter of the data about the mean. Results of this study indicate that, for placement methods

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similar to those used, measurement of stress magnitude with a single gage is a practical impossibility and that, if accuracy within plus or minus 20 percent of the true stress is desired, the average of at least three measurements (corrected for over- and underregistration) should be used. A further result of this study is a

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proposed calibration method to determine statistically the overregistration ratio and confidence interval on the mean for a given gage in a given soil using a particular placement procedure in order that these parameters may be used to predict the over- or underregistration of the buried gage in a virgin loaded test

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specimen. Although not directly applicable to the main objective of this study, information was also obtained on the effect of placement method on response during repetitive loading. The data, presented in an appendix, indicate that overregistration ratio and confidence interval for sand tests decrease with

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repetitive loading. (Author).

Predicting cratering effects from explosions in various media and with various charge geometries is a primary purpose of nuclear weapons research. This report deals with crater formation resulting from high-explosive surface bursts in a

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snow medium. The test program for which crater data were obtained consisted of nine 256-pound TNT charges, one 500-pound C-4 charge, one 1,860-pound C-4 charge, and two 4,180-pound C-4 charges. All were surface bursts fired on the Greenland icecap. Results show that craters produced in snow are larger than those produced in

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other media, presumably due to greater vaporization and compaction of material. These craters have a characteristic wide, shallow appearance; it is believed that pseudoelastic rebound is the mechanism that diminishes crater depth. Analysis of the crater data shows that scaling exponents for craters in snow are lower

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than cube-root or other scaling exponents generally used for craters in soil or rock media. (Author).

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