Heave Behavior of Granular Pile Anchor-Foundation (GPA-Foundation) System in Expansive Soil

ABSTRACT: Granular Pile Anchor (GPA) is one of the innovative foundation techniques, developed to mitigate the heave of the footing in expansive soil. The present study investigates the behavior of GPA-Foundation System as a function of the above mentioned three independent variables with coefficient of regression of (R² = 92.3 %).

Keywords: Expansive Soil; Sand; Heave; Granular Pile Anchor (GPA); Foundation; PLAXIS
Probabilistic Response Evaluation of Plan-Irregular Buildings Subjected to Bi-directional Seismic Loading

Original Article, D34
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ABSTRACT: The present paper aims at evaluating the response of three-dimensional buildings with in-plan unidirectional mass irregularity subjected to bi-directional seismic loading. The approach is based on the Fragility Index (FI), which can be used as an alternative to conventional fragility curves for collapse behavior assessment of three-dimensional structures.

Keywords: Torsional Buildings, Probabilistic, Collapse, Plan Irregularity, Low-Rise Buildings
ABSTRACT: The ecosystem of Urmia Lake is almost close ended and the water of rains and rivers play an important role in Biological... issue, especially when the water level of Urmia Lake is decreased, which lead us to consider polluters and their effects.

Keywords: Urmia Lake, Ecosystem, Sewage, Heavy Metals, Artemia, Environment.
ABSTRACT: Throughout more thousand years of human civilization, bridge and bridge architecture had indicated the creativity, strength and functionality of human. Arabian bridge is a combination of structures which are influenced by river bed, ground strength and amount of water across it. 

Keywords: Bridge Architecture, Design Method, Material Type, Constructing Technique, Natural Factors.
ABSTRACT: A deposition phenomenon is considered as one of the hydrometer processes which have ability to influence the most of the hydrometer processes. The study point out that the multi-layer networks in prognosticating a measure of the sediments is superior to hydrometer method. 

Keywords: Artificial Neural Network, Hydrometer Method, Nero solution, Sediments.

Usage Alteration of the Nazlu-Chay River of Iran due to Excessive Exploit of Its Material Includes Sand and Gravel in the Lake Urmia Catchment
ABSTRACT:

From Ancient times, rivers were so essential for human beings, and they had a major role in the formation of societies and cultures. Rivers are also important for hydropower generation. Some direct influence of exploits includes: river hydraulic alteration, sediment place and river scope morphology.

Keywords: Environmental on sequences, River ecology, Sand and Gravel exploit
ABSTRACT:
The most prominent issue in the civil projects such as construction of dams is providing stable steeps of rocks and ... instead the desired steep will be provided and those lifted material will be used in the body construction of the dam.

Keywords:
Limit Equilibrium Methods, Nazlu Dam, RDQ Index, Stability of Slope

ABSTRACT:
The transient pressure caused by water hammer events is sufficient to fracture pipes and some equipment, and for this ... pressure fluctuation it is advisable to choose pipes with most similar elastic modulus and one greater diameter size.

Keywords:
Elastic modulus, Pipe line, Transient pressure, Water hammer

ABSTRACT:
Pre settled pools were most important elements in water purification process. Because of enormous cost of making these ... laboratory results as well as capacity of this model to predict distribution of sediment profiles in pre settled pools.

Keywords:
Pre Settled Pools, Profile of Flow Velocity, Distribution of Sediment Concentration

ABSTRACT:
The chaotic behavior of monthly precipitation time series is investigated using the phase-space reconstruction technique ... value of correlation in daily scale is an indication of the existence of chaos in the water flow of Baranduz Chay River.

Keywords:
Baranduz Chay River, Chaos Theory, Correlation Dimension, Delay Time

credible Results of Environmental Distribution of Sediment Concentration

ABSTRACT:
Criteria of Passive Defense in Subway Stations

ABSTRACT:
Comparative Hydraulic Simulation of Water Hammer in Transition Pipe Line Systems with Different Diameter and Types
ABSTRACT:

Defense is an integrated concept, which includes both active and passive defenses. The effects of the war include heavy ... of wars) the citizens’ security will increase, and the defensive power and national security will enhance subsequently.

Keywords: The Subway, Designing, Passive Defense, Threat, Architecture.
ABSTRACT:

The unorganized status of housing in all around the world was driving force of emphasizing on "adequate housing right" as a human right in the world. This article tries to study the housing regulations in Iran and other countries, and the extent of their competence in accordance with housing indicators.

Keywords:

Housing, Physical Indexes, Human Rights, Shelter.

ABSTRACT:

Nowadays cities benefit from two geographical (natural, social, and economical environments) and artificial (man-made environments) determinants. Tehran, like most of the megacities around the world, has problems connected to its geographical position and the large number of people living in it. Green roofs are good means for reducing these problems of Tehran.

Keywords:

Green Roof, Roof Garden, Drain, Artificial Filter, Damp-Proof Coarse

ABSTRACT:

Tamin Village has a special place of importance in the villages of Zahedan situated in the south-east of Iran. In this research, I try to study the implementation of nature in Tamin. Not only the destruction of the environment is not the surrounding environment, but also has been completed.

Keywords:

Tamin Village, Dast Kand Architecture, Completion Nature

ABSTRACT:

Tall buildings are defined as signs and certain points in urban view, if located and constructed properly, and their shapes play an important role in determining its policies and strategies should be prioritized to tall buildings which shapes an optimal urban view.

Keywords:

High-rise Buildings, Urban Landscapes, Impressive Indicators, ANP.