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1.

Authors: Kabir Sadeghi, Amr Abdeh, Salah Al-Dubai

Paper Title: An Overview of Construction and Installation of Vertical Breakwaters

Abstract: Breakwaters have been constructed many years back and the determination of their design criteria achieved by unsuccessful and successful experiences made them a role model wave breaking structures all over the world. Large and valuable facilities, land, harbors, and ports must be well protected from the effects of wind which generates waves by dissipating and reflecting the force exerted in order to prevent disasters as the play an important role in rising a nation's economy level. Still, lots of structural elaborated problems in designing breakwaters are yet to be solved. Choosing the right breakwater considering the environment, water depth conditions, understanding associated with breakwater's failures, wave actions on breakwater wall, advantages, disadvantages, important parameters to be taken into account before design and construction are of great significance. This paper will give an overview discussion on some important things or ways to consider regarding breakwaters but concentrating mainly on vertical upright and composite breakwaters. The research paper aimed to provide the researchers with a clear understanding on how to make a quick decision for the best fit vertical breakwater selection, where a safety factor and wave distribution formulas are also provided for the ease of design.

Keywords: Breakwater Structures, Mounds Configuration, Functional Failures, Construction Parameters, Design Safety Factor.

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2.

Authors: Kabir Sadeghi, Qosai Al Haj Houseen, Samh Abo Alsel

Paper Title: Gravity Platforms: Design and Construction Overview

Abstract: Offshore platforms are divided into many types which are mainly categorized according to waterdepth in the installation location. However, the design differs for each type to accomplish the target of the operation. In the early days, they were mainly made of wood and targeted locations in shallow water region. By the time needs of fossil fuel became larger, and the installation locations became far from the shorelines, so bigger and more advanced platforms were used. The modern types of platforms are generally made of steel, built onshore, and then transported to the installation locations. But for some case of sea waterdepths and an aggressive environment such as the North Sea, steel ones are not suitable, so the heaviest type called gravity platform having enormous mass is used. This type of platform has its special requirements and procedures for construction and needs special types of construction materials in order to resist the climate factors applied due to the aggressive environment. In this paper, the operating procedures, types and specifications of materials used, special ways of construction, transportation, and installation procedures for gravity platforms are presented.

Keywords: Gravity Platform, Offshore, Condeep, Concrete Platform.

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3.

Authors:	**Gakwaya Nkundimana Joel, S. Manju Priya**
Paper Title:	**Big Data Analytics in Shape of IoT to High Better Ground of Decision Making (BDASI)**

Abstract: This paper survey the impact of data collected in terms of internet of things and the use of big data analytics tool to handle that datum. The handling of the datum will lead us to have a better decision making on consumer applications. The consumer applications which this paper is ponder upon is health center. various tools are being used in medical fields such interconnected servers for sharing-time, where one department can access the result of a patient in order to pursue a treatment, patients have the wearable devices to measure the status of their health. The external analytics is needed to help the advanced technology to improve their quality of services as well as to improve the health. The suggest analytics way of solving and contributing to this internet of thing we have a Spark and Scala. The datum will be gather in Spark regarding any source provider, where Scala will process those data from future prediction concerning diseases. As technology is progressing the computer skill will carry on to be implemented in diverse fields so that the life of many will be raised from sickness to sound bodies. If better prediction is given to the healthcare it will be far better than having treatment. In this paper The Internet of Things is considered as ground of data which can be accessible easily and Spark and Scala is considered as predictor.

Keywords: Importance, Platform, Network, Developed, Transformative Power, Dalits.

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