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Structural Design & Analysis using STAAD - IFS Academy

Analysis of Underground circular and rectangular Water tank Analysis of circular and rectangular Water tank resting on ground Analysis of circular and rectangular overhead Water tank Analysis of cantilever retaining wall Analysis of each of above type of structure using STAAD FEM and design using IS: 3370

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PLANNING, ANALYSIS AND DESIGN OF (G+20) MULTI -STOREY ...

structural elements In this project STAADPro software is used for analysing the building The IS:875 (Part 1) and (Part 2) were referred for dead load and live load Design of structural elements like beam, column, slab, staircase, shear wall, retaining wall, pile foundation is done according to IS Codes

Analysis and Design of Retaining Wall as a Plate with ...

retaining wall on the load carrying capacity of the retaining wall Here, to find the effectiveness of triangular shaped folded plate used as a retaining wall, design is done by using conventional method as per IS 14458 Part:2 and Also by using STAAD pro software Fig 2 Diagram of conventional retaining wall Fig 3 Diagram of Model of

STATIC ANALYSIS AND DESIGN OF RETAINING WALL WITH AND ...

Analysis and Design of cantilever Retaining wall with shelves: (Reducing its dimension up to some extent) This chapter deals with the analysis and design of retaining wall with single shelf, and analysis of retaining wall with multi shelves The results of analysis and design of retaining wall with shelves has been discussed in this chapter

Analysis And Design Of Apartment Building

floor The building have a shear wall around the lift pit The modelling and analysis of the structure is done by using STAAD Pro 2007, and the designing was done manually Design of beam, column, slab, shear wall, stair case, retaining wall, water tank and an isolated footing are done And the detailing is done using AUTOCAD 2016 Along with

Design and Analysis of RCC Framed Structure(G+5) by using ...

STAADPro and STAADetc M 1Siva Naga Kanya , A Meghana Reddy2, A Retaining wall Two way slab design Pile cap design Laterally loaded pile analysis Circular & Rectangular concrete column design Loss calculation in post tensioned tendon Pile group analysis Corbel design Combined footing with beam analysis & design Strip footing analysis and design Block foundation analysis 2 METHODOLOGY

A PROJECT REPORT ON ANALYSIS AND DESIGN OF MULTI ...

ANALYSIS AND DESIGN OF A (G + 6) MULTI STOREY RESIDENTIAL BUILDING USING STAAD PRO Abstract In order to compete in the ever growing competent market it is very important for a structural engineer to save time as a sequel to this an attempt is made to analyze and design a Multistoried building by using a software package staad pro

Design Of Multistoried Residential Building Using STAAD ...

Introduction of staad Pro It is one of the effective software which is used for the purpose of analysis and design of structure by the structural engineers Our project is aimed to complete with the help of Staadpro Staad pro gives more precise and accurate results than manual techniques Features • Analysis and design tool

Analysis and Design of Retaining Wall with and without ...

Software analysis is done by using STAAD Pro V8i software Retaining walls with shelves are economical compared to conventional retaining walls without shelves In retaining wall with shelves, as the height of the wall increases, the percentage saving of material increases Cantilever retaining walls with two shelves are economical as compared

STAAD.Pro 2006 - ██████████ ████████

About STAADPro STAADPro is a general purpose structural analysis and design program with applications primarily in the building industry - commercial buildings, bridges and highway structures, industrial structures, chemical plant structures, dams, retaining walls, turbine foundations,

culverts and other embedded structures, etc The program

ISSN 2348 - 7968 Analysis and Design of an Apartment building

was modeled, analyzed using STAADProV8i During analysis, dead loads and live loads were calculated using IS:875 (Part I)-1987, IS:875 (Part II)-1987 respectively Design of structural components like beam, column, slab, staircase, shear wall, retaining wall, pile foundation is done according to Indian Standard Codes manually In addition to

Review Paper on Static Analysis and Design of Retaining ...

IVANALYSIS OF RETAINING WALL WITH AND WITHOUT SHELVE USING STAAD-PRO SOFTWARE In this chapter, the retaining wall with and without shelves are analysed using Staad-Pro structural software in which retaining wall is prepared using plate element Staad-Pro gives better and accurate results for analysis of retaining wall with and without shelves

STAAD.Pro 2007 - PUC-Rio

About STAADPro STAADPro is a general purpose structural analysis and design program with applications primarily in the building industry - commercial buildings, bridges and highway structures, industrial structures, chemical plant structures, dams, retaining walls, turbine foundations, culverts and other embedded structures, etc The program

ANALYSIS AND DESIGN OF UNDERGROUND METRO STATION

analysis One is construction stage analysis and other one is permanent stage analysis Construction stage analysis is carried out by WALLAP software and permanent stage analysis is carried out by STAAD Pro software In this project the retaining structure used is Diaphragm wall Calculate the maximum moment and shear force in active and

SIL211 MEKANIKA TANAH, 3(2-3) DESIGN AND DETAILING OF ...

Earth Pressure (P) 8 Earth pressure is the pressure exerted by the retaining material on the retaining wall This pressure tends to deflect the wall outward Types of earth pressure: Active earth pressure or earth pressure (P_a) and Passive earth pressure (P_p) Active earth pressure tends to deflect the wall away from the backfill

On ANALYSIS AND DESIGN OF SAHYADRI ENGINEERING COLLEGE ...

Analysis And Design Of Sahyadri Engineering College Building For Seismic Force And Recommending Suitable Retrofitting Department of civil engineering, SCEM, Mangalore Page 1 CHAPTER 1 INTRODUCTION 11 GENERAL An earthquake also known as a quake or tremor is the result of a sudden release of energy in the Earth's crust that creates seismic

Worked Example 2 | Design of concrete cantilever retaining ...

Cantilever concrete retaining walls are commonly used for residential purposes, often as integral basement walls Usually the cantilever wall stem is of concrete block construction rising from an in-situ concrete foundation The following worked example is for a free-standing cantilever wall that is considered sufficiently flexible for active