



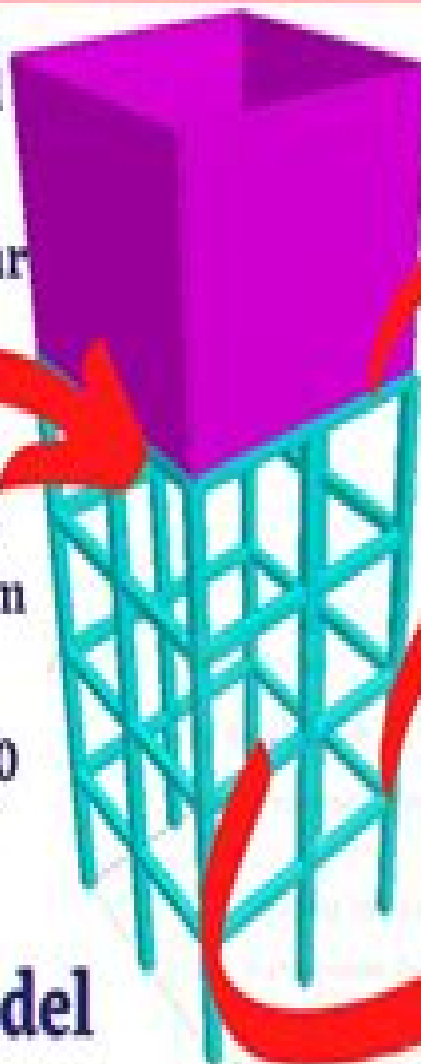
Staad Pro V8i

Full Rectangular water tank Design

Utility : Residential
 Height staging : 12m
 Type : Rectangular
 Concrete Grade : M30
 Steel grade : Fe415
 Column : 0.3m X 0.3m
 Beams : 0.3m X 0.23m
 Slab : 150mm
 Code : IS -456-2000

Tank data

Water Tank model



Beams Design



Design Load		Design Parameters	
Load	8	Full depth	475
Location	End 1	Full depth	30
Reinforcement	200/34	As (mm ² /m)	123
Reinforcement	1/30	As (%)	1.04
Reinforcement	1/30	Bar Size	12
		Bar No.	4

Column Design

Design Of Rectangular Water Tank By Using Staad Pro Software

Peter E. Jervis



Design Of Rectangular Water Tank By Using Staad Pro Software:

Proceedings of the 3rd International Conference on Advances in Concrete, Structural, and Geotechnical Engineering—Volume 2 Shamsher Bahadur Singh, Muthukumar Gopalarathnam, Nishant Roy, 2025-08-02 This book consists of selected papers presented at the 3rd International Conference on Advances in Concrete Structural and Geotechnical Engineering ACSGE 2024 held at BITS Pilani India The papers represent the latest research work in the fields of advanced composite materials advanced computational techniques for structures applications of nanotechnology in civil engineering bridge engineering composite structures concrete technology the fatigue life of structures fire resistant structures functionally graded materials and structures geotechnical processes ground improvement techniques offshore structures performance based design of structures pre cast pre stressed concrete structures seismic design and construction soil structure interaction structural health assessment and rehabilitation sustainability of construction design and management The papers are presented by an international pool of academics research scientists and industrial experts and therefore cater to the global audience from the fields of construction materials design guidelines geotechnical engineering concrete infrastructures and structural engineering This book is part of a 3 volume series of these conference proceedings and it represents Volume 2 in the series Recent Trends in Materials K. Geetha, Francisco M. Gonzalez-Longatt, Hui-Ming Wee, 2022-10-31 This book presents the select proceedings of 4th International Conference on Trends in Material Science and Inventive Materials ICTMIM 2022 Various topics covered in this book are nanotechnology in materials science green and sustainable materials semiconductor electronic materials and devices bio electronic materials and sensors thin films materials surface and interfaces modern electronic materials multilayered structures and composite materials quantum sized structures and nanocrystals electronic biosensors MEMS and sensors light emitting materials nanomaterials opto electronic materials microwave and antenna nanostructure fabrication and self assembly self healable and stretchable configurations data driven materials design advanced charge transfer and suitable interfaces metallization and superconductivity Given the contents the book will be useful for students researchers and professionals working in the area of material science and engineering Emerging Strategies in Research—Going Beyond Disciplinary Boundaries Santosh Dhar, Upinder Dhar, Nitu Katariya, 2023-04-17 Going beyond the disciplinary horizons is an emerging trend of research now a days It is becoming increasingly important for addressing society's most pressing needs Within the disciplinary framework the ability to solve problems through the generation of knowledge has traditionally been addressed from discipline specific perspective However it has become apparent that the research needed to address today's complex problems requires the expertise from multiple disciplines Trans disciplinary Interdisciplinary and Multidisciplinary contributions combined concepts and knowledge not only used by academicians and researchers but also other stakeholders in the civic society including representatives of the private sector public administrators and the public These contributions enable the cross fertilization of knowledge and

experiences from diverse groups of people and contribute towards holistic vision of a subject as well as new explanatory theories. Rather than being an end in itself, this kind of research is a way of achieving innovative goals enriched understanding and a synergy of new methods. *Sustainable Development of Smart Cities Infrastructure (SDSCI-2023) (Volume-1)* H.K. Sharma, Arun Goel, Pankaj Munjal, 2023-05-25. Sustainable development of smart cities infrastructures is of paramount importance and need to be planned, designed, constructed, operated and de-commissioned in a manner that ensures economic, social, environmental and institutional sustainability over the entire infrastructure life cycle. Smart cities infrastructure however be cost effective, disaster resilient, environmentally friendly, conserving natural resources and sustainable, ensuring faster delivery of quality and durable structures which include roads, building bridges, energy and water infrastructures. Government of India is going to encourage Public Private Partnership (PPP) as an alternate option to build most of the infrastructures which can be useful both for green field as well as brown field smart cities projects. The present book is a collection of contributed research and review papers presented at the National Conference on Sustainable Development of Smart Cities Infrastructure SDSCI 2023 held at National Institute of Technology Kurukshetra in May 2023. The subject matter is grouped into nine sessions which include research articles pertaining to sustainable development of smart cities, urban and rural planning, transportation, built environment and management, sustainable and smart technologies, materials, construction and maintenance, advance modelling, characterization of structures, energy and environment, performance of smart cities infrastructure under extreme loading conditions, green buildings, structural health monitoring and ICT in smart cities, data mining and machine learning for sustainable infrastructure, GIS and remote sensing, future trends and prospects of smart cities, innovative technologies, building energy and efficiency and sobriety and sustainable resilience to natural and man-made disasters and smart materials etc. The book would be a valuable reference for researchers, students, structural designers, site engineers and all related engineers involved in the field of sustainable development of smart cities infrastructure.

Design of Water Tank, Storage reservoirs and overhead tank are used to store water, liquid, petroleum, petroleum products and similar liquids. The force analysis of the reservoirs or tanks is about the same irrespective of the chemical nature of the product. All tanks are designed as crack-free structures to eliminate any leakage. This project gives in brief the theory behind the design of liquid retaining structure, circular water tank with flexible and rigid base and rectangular under ground water tank using working stress method. This report also includes computer subroutines to analyze and design circular water tank with flexible and rigid base and rectangular under ground water tank. The program has been written as Macros in Microsoft Excel using Visual Basic programming language. In the end, the programs are validated with the results of manual calculation given in Concrete Structure book.

Parametric Study and Optimization of Water-tanks Elena Hernando Cánovas, 2014. The study aims to improve the optimization of the resources required to the design and construction of water tanks. The criteria and methodology proposed by the standards and studies is analyzed and

have contributed to develop the structural design and the associated parametric study Likewise the methodology applied to develop the environmental analysis Life Cycle Assessment LCA is addressed The present work consists of two studies that has been developed at the same time and which complement each other The structural and the environmental study conducted by an interdisciplinary group from two universities Universitat Aut noma de Catalunya UAB in terms of the environmental study and Universitat Polit cnica de Catalunya UPC for implementing the structural analysis Regarding to the structural part the study carried out consists in analyzing the rectangular and cylindrical reinforced concrete tanks in order to optimize the materials required to meet with the criteria established for its structural design The parametric study was carried out thanks to a program developed in the present work and designed in accordance with the actual codes The program calculates the amounts of materials required for the design and construction of reinforced concrete reservoirs especially the amount of armor to deal with the efforts and the amount of concrete One program for each tank typology has been developed one for the rectangular configuration and another for the cylindrical typology In the environmental analysis the several indicators and the impacts generated by each case structurally analyzed in terms of materials consumption have been studied The LCA plays an important role to provide the criteria in order to choose the optimal configuration between the different solutions Finally general and particular conclusions from the studies developed are presented

Sizing Optimization for Minimum Cost of Underground Water Tanks Alain Tamer, Moufid Haidar, 2018 **Water Tank Design** Emile Nemeh Klat, 1945 *A Simple Method for the Design of Rectangular Storage Tanks* Andy Yau, 1980 *Design, Analysis, and Optimization of a Rectangular Tank* Jihad K. Al-Soudi, 1996 Design for a Reinforced Concrete Water-tank Abder-Rahman E. Gorayib, 1914 **Plastic Rectangular Tank Design** Zhilei Ruan, 1996 **Design of an Elevated Water Tank** W. McAuliffe, 1909 **Design for a Reinforced Concrete Water Tank and Tower** C. H. Lovejoy, 1910 *Study and Design of Fixed Roof Tank Using ANSYS 14.5 and STAAD PRO* Nourhaine Yousfi, Rebh Souilmi, 2015 **A Design for a Reinforced Concrete Water Tank** Geo. R. Burnes, 1913 **The Design of a Rectangular Elevated Reinforced Concrete Tank** Peter E. Jervis, 1983 The Design of an Elevated Water Tank Victor Severs, 1927 *Analysis of Conical Elevated Concrete Water Tank* Majdi A.A. Yousef, 2005 An elevated conical concrete water tank is defined as cylindrical tank on braced columns a typical water tower comprising a conical concrete and a cylindrical cap is covered at the top and the bottom with the dome and that water tower is supported on eight braced columns the domed bottom requires only peripheral columns and needs lesser material than the beam and slab floor This project report will limited to theoretical work structural analysis software ST ADD Pro will be used to model the elevated conical water tank for three cases are different tank geometry The tank will be analyzed under different loading conditions the results obtained will be compared with simplified method available in reinforced concrete design book and study effect the soil interaction on model the elevated conical water tar with respect use three types from soil properties

Observations on the Design of Rectangular Storage Tanks David Timmins, 1996

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