

A Review on Analysis and Design of transmission tower And Monopole by Using Manual Calculation and Software

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Abstract: This research work is focused on comparison of transmission tower and monopole tower for different parameters viz. different height and different loading combinations. The comparative analysis is carried out with respect to axial force deflection maximum sectional property and critical load conditions. The transmission tower and monopole are design by manually by using limit state method based on IS 800, IS 802 IS 875 and gust factor method. Based on steps and formulas involved, a design program will be prepare in MS-EXCEL. The veracity of program will be check by first designing the manually designed transmission tower and monopole using the software and compare results. Wind analysis is carried out using standard codes and software. The behaviour of tower and pole is analysed for different load combination. The maximum displacement values, shear forces and bending moments are obtained. Therefore, transmission tower and monopole should be designed considering both structural and electrical requirements for safe and economical design as per Indian code. It is concluded from past study that transmission tower have lower lateral displacement as compared to monopole. This is because they have higher stiffness. Transmission tower carry heavy electrical transmission conductor at sufficient and safe from the ground than monopole The idea is to reach a definite conclusion regarding the superiority of two structure.

Keywords – Transmission tower, monopole, manual design

I. INTRODUCTION

In last several studies have been performed in the area of analysis and design of metallic towers. The electric transmission is the process by which large amounts of electricity produced at power plants is transported over long distances for use by consumers. Usually steel transmission towers and monopoles are used to transmit the electric power. This is in view of non-availability of adequate land for installation of conventional lattice type tower. To overcome these practical difficulties, a new concept of transmission line is being used world-wide, called monopole. The cost of transmission tower constitutes about quarter to half of the cost of transmission line and hence optimum tower design will bring in substantial savings. The transmission tower are designed and constructed in wide variety of shapes, types, sizes, configuration and material. The supporting structure type used in transmission line generally fall into one of the three categories: lattice, pole guyed. According to IS 800-07, the wind forces are much prominent on the tower, conductors and insulators, besides the self weight. Tower structural calculations include applied loads like wind load, dead load, seismic load and design strength of structural steel member on superstructure including connection and foundation. From safety considerations, along the route of the transmission line clearances above open countries, roads, rivers, railway tracks, tele-communication lines, other power lines, etc. up to conductor needs to be maintained. The basic function of the tower is to isolate the conductors from their surroundings, including other conductors and the tower structure. . An alternative to the transmission tower, the monopole tower, is also used in this power corridor. In this case, the monopole supports much lower voltage conductors for distribution to industrial customers and substations. The voltages required for economical transmission of electric power exceeds the voltages appropriate for distribution to customers.



Figure. 1 showing transmission tower



Figure. 2 showing monopole

II. REVIEW OF LITERATURE :

There are several studies done on the design and analysis of transmission tower and monopole by using software. This literature review reveals the amount of research work done in India.

Sai Arinath, and Rajasekhhar Analysis and design of transmission tower by using Staad.Pro.v8i, this work is focused in optimising the transmission tower with employing the X and K bracings, and by varying the sections, using static analysis. They concluded that the

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Transmission and Distribution Electrical Engineering Colin Bayliss, Brian Hardy, 2006-12-18 Dramatic power outages in North America and the threat of a similar crisis in Europe have made the planning and maintenance of the electrical power grid a newsworthy topic Most books on transmission and distribution electrical engineering are student texts that focus on theory brief overviews or specialized monographs Colin Bayliss and Brian Hardy have produced a unique and comprehensive handbook aimed squarely at the engineers and planners involved in all aspects of getting electricity from the power plant to the user via the power grid The resulting book is an essential read and a hard working reference for all engineers technicians managers and planners involved in electricity utilities and related areas such as generation and industrial electricity usage An essential read and hard working ref

Process Engineering Problem Solving Joseph M. Bonem, 2008-09-26 Avoid wasting time and money on recurring plant process problems by applying the practical five step solution in Process Engineering Problem Solving Avoiding The Problem Went Away but it Came Back Syndrome Combine cause and effect problem solving with the formulation of theoretically correct working hypotheses and find a structural and pragmatic way to solve real world issues that tend to be chronic or that require an engineering analysis Utilize the fundamentals of chemical engineering to develop technically correct working hypotheses that are key to successful problem solving

Energy Research Abstracts, 1990

Project Management and BIM for Sustainable Modern Cities Mohamed Shehata, Fernanda Rodrigues, 2018-10-30 This volume presents innovative work on innovative methods tools and practices aimed at supporting the transition of Asian and Middle Eastern cities and regions towards a more smart and sustainable dimension The role of the built and urban environment are becoming more pronounced in Asia and Middle East as the regions continues to experience rapid increase

in population and urbanisation which have only led to an increase in environmental degradation but also rise in energy consumption and emissions Individual chapters covers timely topics such as sustainable infrastructure transportation renewable energy water and methods supporting an innovative and sustainable development of urban areas Real world examples are presented to highlight recent developments and advancements in design construction and transportation infrastructures The volume is based on the best contributions to the 2nd GeoMEast International Congress and Exhibition on Sustainable Civil Infrastructures Egypt 2018 The official international congress of the Soil Structure Interaction Group in Egypt SSIGE

Modeling of coal gasification for fuel cell utilization M. L. Finson, United States. Department of Energy. Division of Fossil Fuel Utilization, 1978 This report summarizes recent progress on a DOE supported program to construct computer models for potential future combined coal gasification fuel cell power generation systems The approach is to develop physically well founded descriptions for the performance of both molten carbonate fuel cells and coal gasifiers and to utilize the models to prepare performance maps for each device enabling selection of the optimum interfaces between fuel cells and gasifiers In a previous phase of the study we identified entrained flow gasification as the most appropriate type for providing fuel cell feed gas on the basis of off gas composition and the ability to handle a wide range of coal types Accordingly a substantial portion of the current effort is concerned with the development of a computer model for entrained flow gasifiers Furthermore several scaling laws have been developed for fuel cell performance Mostly based on equilibrium open circuit considerations to date these address such issues as the requirements for avoiding carbon deposition the potential effects of methane conversion and the distribution of heat sources and sinks within the cell

Natural Draught Cooling Towers I. Mungan, U. Wittek, 2004-04-15 The world s most experienced scientists and professionals working on cooling towers gathered at the 5th International Symposium on Natural Draught Cooling Towers to discuss the latest developments in this area and exchange knowledge and experiences This book comprises 43 contributions on the latest developments in the field of natural draught cool

Chemical Engineering Progress, 1985

Designing Tall Buildings Mark Sarkisian, 2016-01-08 This second edition of Designing Tall Buildings an accessible reference to guide you through the fundamental principles of designing high rises features two new chapters additional sections 400 images project examples and updated US and international codes Each chapter focuses on a theme central to tall building design giving a comprehensive overview of the related architecture and structural engineering concepts Author Mark Sarkisian PE SE LEED AP BD C provides clear definitions of technical terms and introduces important equations gradually developing your knowledge Projects drawn from SOM s vast portfolio of built high rises many of which Sarkisian engineered demonstrate these concepts This book advises you to consider the influence of a particular site s geology wind conditions and seismicity Using this contextual knowledge and analysis you can determine what types of structural solutions are best suited for a tower on that site You can then conceptualize and devise efficient structural systems that are not only safe but also constructible

and economical Sarkisian also addresses the influence of nature in design urging you to integrate structure and architecture for buildings of superior performance sustainability and aesthetic excellence

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