

PUSHOVER ANALYSIS OF A MULTI-STOREYED BUILDING

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Abstract- The promise of performance based seismic engineering (PBSE) is to produce structures with predictable seismic performance. Each building designed by this process is virtually unique. Therefore, up to now PBSE has not been an economically feasible alternative to conventional prescriptive code design practices. The poor performance and high level of structural damage in building structures during the frequent earthquakes increased the need to the determination and evaluation of the damages in the building type of structures, so much more than ever before. In order to prevent such collapse mechanisms in the building structures, nonlinear analysis must be determined accurately. To evaluate the performance of framed buildings under future expected earthquakes, a nonlinear static pushover analysis has been conducted. The load-deformation curve is obtained from SAP2000. Firstly, a multi-storeyed building (G+4) is analyzed in STAAD.Pro. The calculation of design seismic force by static analysis method has been carried out and lateral load distribution with height is shown. The same building is then modeled in SAP platform to carry out pushover analysis. The Capacity Spectrum, Demand Spectrum and

Performance point of the building was found in both X and Y direction using the analysis carried out in SAP 2000 (v14). From the performance point it was found that the base shear carried by the building is well above the design base shear. Finally, the maximum displacement was found to be less than 1% which indicates the chance of crossing the elastic state for the building is very less.

Keywords- PBSE, Pushover analysis, Nonlinear Static analysis.

1. INTRODUCTION

One of the emerging fields in seismic design of structures is the Performance Based Design. The promise of performance based seismic engineering (PBSE) is to produce structures with predictable seismic performance. In coming few years we can say that performance based design will become the standard method of delivering earthquake resistant designs. Seismic design is slowly transforming from a stage where a linear elastic analysis for a structure was sufficient for both its elastic and ductile design, to a stage where especially dedicated non-linear procedure is to be done, which finally influences the seismic design as a whole. Seismic hazard and damage state are the two essential parts of a performance

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Table of Contents Pushover Analysis Of A Multi Storeyed Building

1. Understanding the eBook Pushover Analysis Of A Multi Storeyed Building
 - The Rise of Digital Reading Pushover Analysis Of A Multi Storeyed Building
 - Advantages of eBooks Over Traditional Books
2. Identifying Pushover Analysis Of A Multi Storeyed Building
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Pushover Analysis Of A Multi Storeyed Building
 - User-Friendly Interface
4. Exploring eBook Recommendations from Pushover Analysis Of A Multi Storeyed Building
 - Personalized Recommendations
 - Pushover Analysis Of A Multi Storeyed Building User Reviews and Ratings
 - Pushover Analysis Of A Multi Storeyed Building and Bestseller Lists
5. Accessing Pushover Analysis Of A Multi Storeyed Building Free and Paid eBooks

- Pushover Analysis Of A Multi Storeyed Building Public Domain eBooks
 - Pushover Analysis Of A Multi Storeyed Building eBook Subscription Services
 - Pushover Analysis Of A Multi Storeyed Building Budget-Friendly Options
6. Navigating Pushover Analysis Of A Multi Storeyed Building eBook Formats
- ePub, PDF, MOBI, and More
 - Pushover Analysis Of A Multi Storeyed Building Compatibility with Devices
 - Pushover Analysis Of A Multi Storeyed Building Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Pushover Analysis Of A Multi Storeyed Building
 - Highlighting and Note-Taking Pushover Analysis Of A Multi Storeyed Building
 - Interactive Elements Pushover Analysis Of A Multi Storeyed Building
8. Staying Engaged with Pushover Analysis Of A Multi Storeyed Building
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Pushover Analysis Of A Multi Storeyed Building
9. Balancing eBooks and Physical Books Pushover Analysis Of A Multi Storeyed Building
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Pushover Analysis Of A Multi Storeyed Building
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Pushover Analysis Of A Multi Storeyed Building
- Setting Reading Goals Pushover Analysis Of A Multi Storeyed Building
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Pushover Analysis Of A Multi Storeyed Building
- Fact-Checking eBook Content of Pushover Analysis Of A Multi Storeyed Building
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development

- Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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