

# **PUSHOVER ANALYSIS OF A MULTI-STORIED FRAME WITH SHEAR WALL AND JACKETED COLUMNS**

A Thesis submitted to Department of Civil Engineering  
in partial fulfillment of the requirements for the Award of Degree of

## **MASTER OF TECHNOLOGY IN STRUCTURAL ENGINEERING AND NATURAL DISASTER MANAGEMENT**

Submitted By

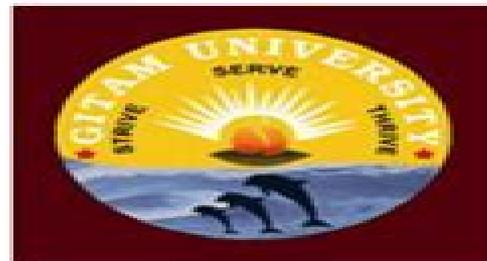
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**DEPARTMENT OF CIVIL ENGINEERING  
GITAM INSTITUTE OF TECHNOLOGY  
GITAM UNIVERSITY**

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# Pushover Analysis Of A Multi Storied Frame With Shear Wall

**Sabine Zange**

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular glow behind it.

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**Proceedings of the 1st International Conference on Recent Innovation in Civil Engineering and Architecture for Sustainable Development (IICASD 2024)** Md. Khasro Miah, Md. Nazrul Islam, Md. Akramul Alam, Md. Abu Taiyab, Md. Rezaul Karim, Bayezid Ismail Choudhury, Md. Monowar Hossain, Md. Shibly Anwar, Md. Zakir Hasan, Md. Suman Mia, 2025-04-04 This is an open access book Welcome to the 1st International Conference on Recent Innovation in Civil Engineering and Architecture for Sustainable Development IICASD 2024 organized by the Faculty of Civil Engineering Dhaka University of Engineering Technology DUET Gazipur Bangladesh The conference will be held on 07 09 November 2024 offering both online and on site participation This three day event intends to bring together scholars researchers specialists and students from a global audience and promote intellectual interaction on the latest advances in sustainability The primary goal of IICASD 2024 is to provide a worldwide forum for researchers and technical experts to communicate and share their fresh concepts innovative solutions and problem solving strategies in different branches of Civil Engineering and Architecture Additionally this conference will provide the students with an opportunity to learn about the latest findings on sustainable development that will ultimately boost their academic performance and provide them with practical solutions to real world difficulties in their field

**Advances in Structural Engineering** Vasant Matsagar, 2014-12-12 The book presents research papers presented by academicians researchers and practicing structural engineers from India and abroad in the recently held Structural Engineering Convention SEC 2014 at Indian Institute of Technology Delhi during 22 24 December 2014 The

book is divided into three volumes and encompasses multidisciplinary areas within structural engineering such as earthquake engineering and structural dynamics structural mechanics finite element methods structural vibration control advanced cementitious and composite materials bridge engineering and soil structure interaction Advances in Structural Engineering is a useful reference material for structural engineering fraternity including undergraduate and postgraduate students academicians researchers and practicing engineers Urban Habitat Constructions Under Catastrophic Events Federico M. Mazzolani,2010-08-27 COST is an intergovernmental framework for European Cooperation in Science and Technology allowing the coordination of nationally funded research on a European level Part of COST was COST Action C26Urban Habitat Constructions Under Catastrophic Events which started in 2006 and held its final conference in Naples Italy on 16 18 September 201 **Civil and Environmental Engineering for Resilient, Smart and Sustainable Solutions** Tahar Ayadat,2025-03-25 The book focusses on recent developments in the area of infrastructures that are resilient smart and sustainable It presents an important guideline for policy makers engineers and researchers interested in various infrastructure issues faced by societies Keywords Earthquakes Damage Localization Global Warming Machine Learning Seismic Assessment Reinforced Concrete Fire Behavior Shape Memory Alloys Green Sustainable Concrete Geotechnical Parameters Cement Paste Plasticity Index Urban Environment Underground Pipeline Soil Stabilization Groundwater Monitoring Solar Photovoltaic Systems Climate Change Pollution Monitoring Cost Estimation Model Recent Developments in Structural Engineering, Volume 3 Manmohan Dass Goel,Laxmikant M. Gupta,Omprakash R. Jaiswal,2025-03-22 The book presents the select proceedings of 13th Structural Engineering Convention It covers the latest research in multidisciplinary areas within structural engineering Various topics covered include structural dynamics structural mechanics finite element methods structural vibration control advanced cementitious and composite materials bridge engineering soil structure interaction blast impact fire material and many more The book will be a useful reference material for structural engineering researchers and practicing engineers **Earthquake Engineering** Pavlo V. Kryvenko,Stanislav Kolisnychenko,2024-10-03 Aggregated Book **Steel Plate Shear Walls for Seismic Design and Retrofit of Building Structures** Darren Vian,Michel Bruneau,2005 **Sustainable Innovations in Construction Management** Osman Gencel,M. Balasubramanian,T. Palanisamy,2023-11-20 This book presents the select proceedings of International Conference on Civil Engineering Innovative Development in Engineering Advances ICC IDEA 2023 This book covers the latest research in the areas of construction engineering and management urban planning and design building energy conservation and green architecture materials science and engineering innovation in construction materials and information technology in civil engineering The book is useful for researchers and professionals in civil engineering **Experimental Investigation of Full-scale Two-story Steel Plate Shear Walls with Reduced Beam Section Connections** Bing Qu,2008 **The Second U.S.-Japan Workshop on Performance-Based Earthquake Engineering**

**Methodology for Reinforced Concrete Building Structures [proceedings]** Toshimi Kabeyasawa,2000     **Earthquake Resistant Engineering Structures III** C. A. Brebbia,A. Corz,2001 Third International Conference on Earthquake Resistant and Engineering Structures ERES III P facing t p     *Earthquake Resistant Engineering Structures II* G. Oliveto,C. A. Brebbia,1999 Featuring research for internationally acknowledge authorities this text contains the proceedings of the second international conference to be held on earthquake resistant engineering structures Topics relevant to the analysis and design of structures resistant to earthquake damage including engineering seismology applicable numerical methods principles of design and soil structure interaction are discussed while case studies are also presented     *Individual Studies by Participants to the International Institute of Seismology and Earthquake Engineering* International Institute of Seismology and Earthquake Engineering,1964     *Report* ,2002     Engineering Journal ,2001     **Designer's Guide to EN 1998-1 and 1998-5** Michael N Fardis,Eduardo Carvalho,Amr S Elnashai,Haig Gulvanessian,2005-09-28 Covers EN1998 1 General Rules seismic actions and rules for buildings and EN1998 5 Foundations retaining structures geotechnical aspects This book is useful for Civil and Structural Engineers Code drafting committees Clients Structural Design students and Public authorities     **Seismic Behavior and Design of Boundary Frame Members of Steel Plate Shear Walls** Bing Qu,Michel Bruneau,2008     **Technical Report** ,2003     **Abstract Journal in Earthquake Engineering** ,1996

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