

## PACE-2021

## International Congress on the Phenomenological Aspects of Civil Engineering

Research Article

10-23 June 2023

# Comparative Study of the Seismic Assessment According to ATC-40, FEMA-356 and FEMA-440 for Existing Hospital Building Located at Baghdad City

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#### Keywords

Pushover Analysis, Moment-Curvature Analysis, Response Spectrum, Iragi Seismic Code, Capacity Curves, Plantic Hinge.

#### Abstract

Seismic evaluation, an important way to validate the buildings to resist earthquake loads. In relevance, buildings can be divided into primary and secondary elements. The primary elements include the structural elements, while the secondary involve the non-structural elements. The comparative between ATC-90, FEMA-356 and FEMA-940 were investigated in the present study. The case study was introduced in this study of Thalassemia Center Hospital Building located at Baghdad, Iraq. The study conducted by using Iraqi Seismic Code (ISC-2017) response spectrum. The comparison of the results between the evaluation codes was carried out in terms of capacity curves and performance level. The comparison's results drew attention to important points. The results of the CSM method according to ATC-40 and an improved equivalent linearization procedure adopted by FEMA-440 differed because the equivalent linearization procedure relied on new expressions to assess effective period and effective damping. The results improved that the values of spectral response acceleration according to ISC-2017 were adequate and appropriate to use in the seismic analysis and design. Accordingly, it can be considered that the capacity spectrum method (CSM) based on FEMA\$\$0 produces results that are very conservative, whereas those obtained with the ATC-40 are invariably underestimated.

#### 4.Entroduction

An elastic analysis is an important method to indicate the elastic capacity and first yielding of structures. The main drawback of this way, it cannot predict the fallure technique and calculate the redistribution of the forces during progressive yielding [1]. For the seismic evaluation of the existing buildings as well as the design of new constructions, the engineers use inelastic analysis procedures. It helps engineers better understand how structures will behave when subjected to major earthquakes, where it is assumed that the elastic capacity of the structure will be exceeded [2]. Two methods for investigating inelastic seismic performance are available. One is the monlinear time history analysis, and another is a nonlinear static analysis called 'Pushover analysis'. The monlinear time history analysis can be divided into two methods. One is based on the dynamic response of an equivalent single degree of freedom system derived. from a multi-degree of freedom (MDOF) system [3,4]. The other is based on the equivalent response directly obtained from the nonlinear dynamic response of a MDOF system ISI. Static pushover analysis has been the preferred method for seismic performance evaluation. Pushover hereinafter is not a recent development, and its genesis traced back to the 70's decade [6]. The static pushover analysis can also be divided into two methods. One is based on the first-mode pushover analysis [7]. The other is based on the modal pushover analysis OCPA). where higher mode effects are taken into account III. Pushover analysis is based on the assumption that the dynamic response of the structure is controlled by the elastic fundamental mode, which is the case for most regular buildings (% Marry codes of seismic evaluation discussed in this study. It contains available simplified nonlinear analysis methods, referred to as nonlinear static according to ATC-40(10) procedures, include the Capacity Spectrum Method (CSM) that

uses the intersection of the capacity (pushover) curve and a reduced response spectrum to estimate maximum displacement. It also contains the Displacement Coefficient Method (DCM) according to the FEMA-356 [15] procedures that use pushover analysis and modified the linear elastic response to estimate maximum displacement; and improvement of nonlinear static seismic analysis procedures (improvement Capacity Spectrum Method(CSM) and Displacement Coefficient Method (DCMI) according to FEMA-440 [12]. There have been many research studies regarding the differences between the evaluation international codes. Mahaylov and Petrini [13] studied five codes for evaluating existing buildings Stalian Seismic Code [14], ECS DSL FEMA-386 [11], ATC-40 [10], and FEMA-440 [12] were analyzed by looking at the theoretical basis of the problems. It found that the dynamic P-5 effect is not considered by the Italian seismic code and the DCS. According to FEMAW40 [12], the procedures implemented in FEMA356 and ATC-40 [10] are not able to adequately capture the dynamic instability phenomenon. The non-linear static procedure in the Italian seismic code and ECS is based on the Equivalent SDOF system's elastic-perfectly plastic nature. Degradation effects of strength and stiffness are not considered. This simplification may lead to underestimation of the target displacement. Cavdar and Bayraktar [16] included several performance evaluation procedures. Four main guidelines/codes describe the most common evaluation procedures: ATC-40 [10], FEMA 356 [11], FEMA 440 [12], and TEC-2007[16]. The static pushover and nonlinear time history studies analyze the nonlinear seismic behavior of a collapsed reinforced concrete (BC) residential building in Turkey. It found that the current structural structure of residential buildings did not meet the ATC-40 [10], FEMA 356 [11]. FEMA 440 [12], and TEC-2007[17] predicted standards of performance ILSI. According to both nonlinear static pushover analysis and time history analysis under earthquake loads, the building constructed

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## **Table of Contents 40 Fema Study Guide**

- 1. Understanding the eBook 40 Fema Study Guide
  - The Rise of Digital Reading 40 Fema Study Guide
  - Advantages of eBooks Over Traditional Books
- 2. Identifying 40 Fema Study Guide
  - 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 40 Fema Study Guide
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from 40 Fema Study Guide
  - Personalized Recommendations
  - 40 Fema Study Guide User Reviews and Ratings
  - 40 Fema Study Guide and Bestseller Lists

- 5. Accessing 40 Fema Study Guide Free and Paid eBooks
  - o 40 Fema Study Guide Public Domain eBooks
  - o 40 Fema Study Guide eBook Subscription Services
  - 40 Fema Study Guide Budget-Friendly Options
- 6. Navigating 40 Fema Study Guide eBook Formats
  - ∘ ePub, PDF, MOBI, and More
  - 40 Fema Study Guide Compatibility with Devices
  - 40 Fema Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of 40 Fema Study Guide
  - Highlighting and Note-Taking 40 Fema Study Guide
  - Interactive Elements 40 Fema Study Guide
- 8. Staying Engaged with 40 Fema Study Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers 40 Fema Study Guide
- 9. Balancing eBooks and Physical Books 40 Fema Study Guide
  - Benefits of a Digital Library
  - $\circ\,$  Creating a Diverse Reading Collection 40 Fema Study Guide
- 10. Overcoming Reading Challenges
  - o Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine 40 Fema Study Guide
  - Setting Reading Goals 40 Fema Study Guide
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 40 Fema Study Guide
  - Fact-Checking eBook Content of 40 Fema Study Guide
  - 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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