

Incremental dynamic analysis of woodframe buildings

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SUMMARY

The collapse of wood buildings was one of the main contributors to the heavy death toll and economic losses during the 1995 Hyogo-ken Nanbu (Kobe) earthquake in Japan. In California, half of the property loss from the 1994 Northridge earthquake was attributed to wood construction. Based on damage observed in recent earthquakes, the seismic vulnerability of existing wood buildings under maximum credible seismic events is uncertain. The main objective of this study is to quantify the seismic collapse fragilities and collapse mechanisms of a two-story townhouse and three-story woodframe apartment building through numerical analyses. Three construction quality variants (poor, typical and superior) were considered for each building in order to assess the effects of construction qualities on seismic collapse fragilities. The buildings were also re-designed according to the 2006 edition of the International Building Code to quantify the seismic fragilities of modern woodframe construction. The results obtained suggest that the construction quality, excitation direction and wall finish materials can influence significantly the collapse fragilities of woodframe buildings. Copyright © 2008 John Wiley & Sons, Ltd.

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KEY WORDS: collapse; incremental dynamic analysis; seismic; wood structure

1. INTRODUCTION

Observations from significant earthquakes in the last two decades, such as the 1989 Loma Prieta and the 1994 Northridge earthquakes in California and the 1995 Hyogo-ken Nanbu (Kobe) earthquake

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Northridge Earthquake Field Investigations Statistical Analysis Of Woodframe

Charles Scawthorn, Wai-Fah Chen



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Northridge Earthquake Field Investigations G. G. Schierle, Consortium of Universities for Research in Earthquake Engineering (CUREe), California Institute of Technology, 2003-01 The objective of the field investigation was to analyze Northridge earthquake damage data to clarify important relationships for use in other elements of the Woodframe Project This report focuses on residential buildings though many other occupancies are commonly built of wood as well The report also provides background material for other research about wood frame structures the predominant type of residential construction in the U S The study examined data for both multi family dwellings apartment buildings and single family homes

Techniques for the Seismic Rehabilitation of Existing Buildings, 2006 *Earthquake Engineering Handbook* Charles Scawthorn, Wai-Fah Chen, 2002-09-27 Earthquakes are nearly unique among natural phenomena they affect virtually everything within a region from massive buildings and bridges down to the furnishings within a home Successful earthquake engineering therefore requires a broad background in subjects ranging from the geologic causes and effects of earthquakes to understanding the impact of these effects on foundations buildings structures the infrastructure and even their social and economic impact The Earthquake Engineering Handbook is a comprehensive resource that covers the spectrum of topics relevant to designing for and mitigating earthquakes In it international experts present engineering practices research and developments in North America Europe and the Pacific Rim countries The emphasis is on professional applications with discussion ranging from basic dynamics and geoscience to new technologies intended to avoid rather than resist the forces of earthquakes Covering both traditional and innovative practices the Earthquake Engineering Handbook is the first professional reference that brings together all of earthquake engineering s many facets Formulas tables and illustrations give immediate answers to questions arising in practice and summaries of the essential elements of each topic paint a global picture from which readers can develop understanding and the ability to think beyond the results presented **Principles**

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