

Since confined masonry buildings performed well in past earthquakes, resources related to seismic repair and retrofit of these buildings are limited. The reader is referred to a publication developed after the 2009 Pisco, Peru earthquake (PNUD, 2009), and another one prepared after the 2002 Colima, Mexico earthquake (EERI, 2006).



a)



b)

Figure 4. Performance of confined masonry buildings in recent significant earthquakes: a) the 2010 Maule, Chile earthquake (M.O. Moroni Yadlin), and b) the 2007 Pisco, Peru earthquake (D. Quiun).

1.3.2 General System Behavior

1.3.2.1 How Seismic Forces are Resisted by a Confined Masonry Wall Panel

Seismic behavior of a confined masonry wall panel can be explained by composite (monolithic) action of a masonry wall and adjacent RC confining elements. This composite action exists due to the tootling between the walls and the tie-columns - that is one of the key features of confined masonry construction. In the absence of tootling, composite action can be achieved by means of horizontal reinforcement (dowels). Figure 5 shows a two-bay confined masonry specimen subjected to reversed cyclic lateral loading simulating earthquake effects (Pérez-Gavilán, 2009). The specimen demonstrated a typical damage pattern in the form of diagonal shear cracks. The failure took place in the form of a single diagonal crack which propagated through the walls and the tie-columns. This mechanism can be expected to occur in buildings with small RC tie-column sizes, where tie-column depth does not exceed 1.5 times the wall thickness.

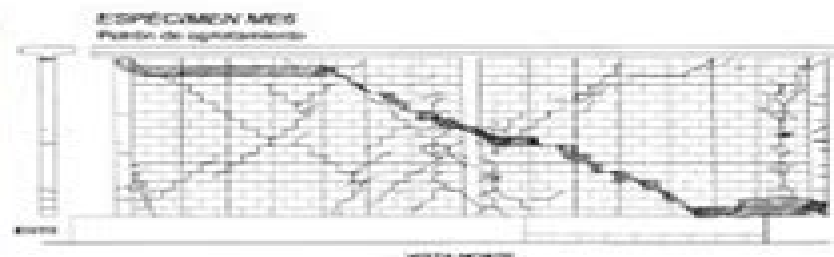


Figure 5. Failure of a two-bay confined masonry wall (Pérez-Gavilán, 2009).

Seismic Performance Of Low Rise Buildings State Of The Art And Research Needs

Edward W. Mellow



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Seismic Performance of Low Rise Buildings Ajaya K. Gupta,1981 **Issues in Urban Earthquake Risk B.E.**
Tucker,Mustafa Özder Erdik,Christina N. Hwang,2013-03-09 Urban seismic risk is growing worldwide and is increasingly a problem of developing countries In 1950 one in four of the people living in the world s fifty largest cities was earthquake threatened while in the year 2000 about one in two will be Further ofthose people living in earthquake threatened cities in 1950 about two in three were located in developing countries while in the year 2000 about nine in ten will be Unless urban seismic safety is improved particularly in developing countries future earthquakes will have ever more disastrous social and economic consequences In July 1992 an international meeting was organized with the purpose of examining one means ofimproving worldwide urban safety Entitled Uses ofEarthquake Damage Scenarios for Cities of the 21st Century this meeting was held in conjunction with the Tenth World Conference ofEarthquake Engineering in Madrid Spain An earthquake damage scenario EDS is a description of the consequences to an urban area of a large but expectable earthquake on the critical facilities of that area In Californian and Japanese cities EDSes have been used for several decades mainly for the needs of emergency response officials The Madrid meeting examined uses of this technique for other purposes and in other less developed countries As a result of this meeting it appeared that EDSes had significant potential to improve urban seismic safety worldwide **Housing and Planning References** ,1983 *Proceedings of the Invitational Workshop on Seismic Testing, Analysis and Design of Woodframe Construction* Invitational Workshop on Seismic Testing, Analysis and Design of Woodframe Construction,1999 **Proceedings of the Third U.S. National Conference on Earthquake Engineering** ,1986 *Seismic Performance Assessment of Buildings: Methodology* Applied Technology Council,2018 Abstract Journal in Earthquake Engineering ,1993 *Index of Conference Proceedings Received* British Library. Lending Division,1982 地震被害軽減のための建築技術 (Japan),1900 **Earthquake Hazards Reduction Program** United States. Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Science, Technology, and Space,1989 Life Safety and Economic Liability Risks Associated with Strengthened, Unreinforced Masonry Buildings John H. Wiggins,1994 Safety, Reliability, Risk and Life-Cycle Performance of Structures and Infrastructures George Deodatis,Bruce R. Ellingwood,Dan M. Frangopol,2014-02-10 Safety Reliability Risk and Life Cycle Performance of Structures and Infrastructures contains the plenary lectures and papers presented at the 11th International Conference on STRUCTURAL SAFETY AND RELIABILITY ICOSSAR2013 New York NY USA 16 20 June 2013 This set of a book of abstracts and searchable full paper USBdevice is must have literature for researchers and practitioners involved with safety reliability risk and life cycle performance of structures and infrastructures **Fourth Canadian Conference on Earthquake Engineering** ,1983 NBS Special Publication ,1968 **Life-cycle of Structural Systems** Hitoshi Furuta,Mitsuyoshi Akiyama,Dan M. Frangopol,2018-12-07 This book aims to promote the study research and applications in

the design assessment prediction and optimal management of life cycle performance safety reliability and risk of civil structures and infrastructure systems The contribution in each chapter presents state of the art as well as emerging applications related to key aspects of the life cycle civil engineering field The chapters in this book were originally published as a special issue of *Structure and Infrastructure Engineering* *A Balanced Earthquake Engineering Program* Edward W. Merrow, 1987 **Building Technology Publications** Center for Building Technology, 1978 **Building Technology Publications**, 1977 **Earthquake Engineering in Europe** Mihail Garevski, Atilla Ansal, 2010-08-05 This book contains 9 invited keynote and 12 theme lectures presented at the 14th European Conference on Earthquake Engineering 14ECEE held in Ohrid Republic of Macedonia from August 30 to September 3 2010 The conference was organized by the Macedonian Association for Earthquake Engineering MAEE under the auspices of European Association for Earthquake Engineering EAEE The book is organized in twenty one state of the art papers written by carefully selected very eminent researchers mainly from Europe but also from USA and Japan The contributions provide a very comprehensive collection of topics on earthquake engineering as well as interdisciplinary subjects such as engineering seismology and seismic risk assessment and management Engineering seismology geotechnical earthquake engineering seismic performance of buildings earthquake resistant engineering structures new techniques and technologies and managing risk in seismic regions are all among the different topics covered in this book The book also includes the First Ambraseys Distinguished Award Lecture given by Prof Theo P Tassios in the honor of Prof Nicholas N Ambraseys The aim is to present the current state of knowledge and engineering practice addressing recent and ongoing developments while also projecting innovative ideas for future research and development It is not always possible to have so many selected manuscripts within the broad spectrum of earthquake engineering thus the book is unique in one sense and may serve as a good reference book for researchers in this field Audience This book will be of interest to civil engineers in the fields of geotechnical and structural earthquake engineering scientists and researchers in the fields of seismology geology and geophysics Not only scientists engineers and students but also those interested in earthquake hazard assessment and mitigation will find in this book the most recent advances

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