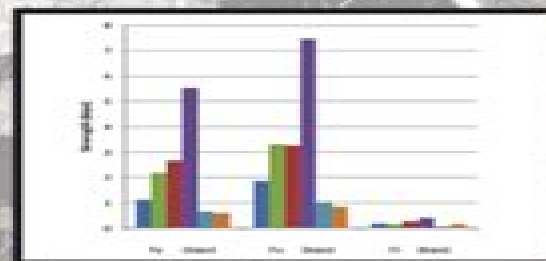


SIMULATION OF THE SEISMIC PERFORMANCE OF NONSTRUCTURAL SYSTEMS

NEES Nonstructural

EXPERIMENTAL SEISMIC EVALUATION, MODEL PARAMETERIZATION, AND EFFECTS OF COLD-FORMED STEEL-FRAMED GYPSUM PARTITION WALLS ON THE SEISMIC PERFORMANCE OF AN ESSENTIAL FACILITY



By
**Ryan D. Davies, Rodrigo Retamales, Gilberto
Mosqueda and Andre Filiatrault**

Technical Report MCEER-11-0005 ■ October 12, 2011

This research was conducted at the University at Buffalo, State University of New York and was supported by the National Science Foundation under Grant No. CMMI-0721399.

Seismic Performance Of Gypsum Walls Experimental Test Program Curee

**Ryan D. Davies, Multidisciplinary
Center for Earthquake Engineering
Research (U.S.), Rodrigo Retamales
Saavedra, Gilberto Mosqueda, André
Filiatrault**

Seismic Performance Of Gypsum Walls Experimental Test Program Curee:

Seismic Behaviour and Design of Irregular and Complex Civil Structures IV Rita Bento, Mario De

Stefano, Dietlinde Köber, Zbigniew Zembaty, 2022-01-18 This volume contains papers of the 9th European Workshop on the Seismic Behaviour of Irregular and Complex Structures 9EWICS held in Lisbon Portugal in 2020 This workshop organized at Instituto Superior Tecnico University of Lisbon continued the successful three annual series of workshops started back in 1996 Its organization had the sponsorship of Working Group 8 Seismic Behaviour of Irregular and Complex Structures of the European Association of Earthquake Engineering This international event provided a platform for discussion and exchange of ideas and unveiled new insights on the possibilities and challenges of irregular and complex structures under seismic actions The topics addressed include criteria for regularity seismic design of irregular structures seismic assessment of irregular and complex structures retrofit of irregular and complex structures and soil structure interaction for irregular and complex structures Beyond an excellent number of interesting papers on these topics this volume includes the papers of the two invited lectures one devoted to irregularities in RC buildings including perspectives in current seismic design codes difficulties in their application and further research needs and another one dedicated to the challenging and very up to date topic in the area of seismic response of masonry building aggregates in historical centers This volume includes 26 contributions from authors of 11 countries giving a complete and international view of the problem The holds particular interest for all the community involved in the challenging task of seismic design assessment and or retrofit of irregular and complex structures

New Experimental Capabilities and Loading Protocols for Seismic Qualification and Fragility Assessment of Nonstructural Systems, 2008 Earthquake Spectra, 2006 **Developments in Mechanics of Structures & Materials** Andrew J. Deeks, Hong Hao, 2004-11-15 This volume contains the peer reviewed papers accepted for presentation at the 18th Australasian Conference on the Mechanics of Structures and Materials held in Perth 2004 Papers contained describe significant advances in a large number of diverse areas indicating the range of applications of the basic principles and techniques of mechanics from traditional areas such as steel and concrete structures through to modern areas such as structural health monitoring and structural rehabilitation using carbon fibre composites With topics ranging from foundation piles to shaken baby syndrome this volume reports the results of countless thousands of hours of research and millions of dollars of research funding

Design of Wood Structures-ASD/LRFD Donald Breyer, 2007-01-05 Wood is the major building material in residential structures This work reflects the 2006 Building Code NDS standards and ASCE load standard It is aimed at civil engineers and architects and students

System Performance Under Multihazard Environment Cagdas Kafali, 2008 Cyclic Behavior of Woodframe Walls with Finish Materials Andrew Eric Arnold, 2002

Technical Report, 2008 *Proceedings of the 11th International Conference on Behaviour of Steel Structures in Seismic Areas* Federico M. Mazzolani, Vincenzo Piluso, Elide Nistri, Antonio Formisano, 2024-06-23 This volume highlights the latest

advances innovations and applications in the field of seismic design and performance of steel structures as presented by leading international researchers and engineers at the 11th International Conference on the Behaviour of Steel Structures in Seismic Areas STESSA held in Salerno Italy on July 8 10 2024 It covers a diverse range of topics such as behaviour of structural members and connections performance of structural systems mixed and composite structures energy dissipation systems self centring and low damage systems assessment and retrofitting codes and standards light gauge systems The contributions which were selected by means of a rigorous international peer review process present a wealth of exciting ideas that will open novel research directions and foster multidisciplinary collaboration among different specialists

SAWS Bryan Folz,2002 Seismic Performance of Gypsum Walls Kurt M. McMullin,Dan Merrick,Consortium of Universities for Research in Earthquake Engineering (CUREe),California Institute of Technology,2002-07-01 Design of Wood Structures - ASD Donald E. Breyer,Kenneth J. Fridley,Kelly Cobein,David G. Pollock,2003-09-16 The best selling text and reference on wood structure design Incorporates the latest National Design Specifications the 2003 International Building Code and the latest information on wind and seismic loads **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 **Canadian Journal of Civil Engineering** ,2006 **Seismic Performance of Gypsum Walls - Analytical Investigation** Gregory G. Deierlein,Amit M. Kanvinde,Consortium of Universities for Research in Earthquake Engineering (CUREe),California Institute of Technology,2003-02 **Experimental Seismic Evaluation, Model Parameterization, and Effects of Cold-formed Steel-framed Gypsum Partition Walls on the Seismic Performance of an Essential Facility** Ryan D. Davies,Multidisciplinary Center for Earthquake Engineering Research (U.S.),Rodrigo Retamales Saavedra,Gilberto Mosqueda,André Filiatrault,2011 The work included in this report enhances the understanding of the seismic behavior of nonstructural cold formed steel framed gypsum partition walls The test plan that included 50 full scale partition walls constructed and tested to both quasi static and dynamic protocols developed for the University at Buffalo Nonstructural Component Simulator UB NCS generated data regarding partition wall in plane and out of plane seismic behavior and seismic fragility Dynamic analyses that included the mechanical behavior of cold formed steel gypsum partition walls in the structural frame of a four story steel building indicated a significant improvement in the collapse capacity of the building Pages iii iv **Seismic Performance Evaluation of Gypsum Wallboard Partitions** Anna Frances Lang,2007 *A Seismic Performance Evaluation of Gypsum Wallboard Partitions* Andrew Mark Bersofsky,2004 **Ausstellung für pharmazeutischen Bedarf im Vereinshause Deutscher Apotheker, Leiter Martin Fraenkel** ,1910 **Seismic Performance Evaluation of Reinforced Masonry Wall Systems with Frame Modeling** Jianyu Cheng,2021 This study is aimed to acquire a better understanding of the seismic behavior of reinforced masonry RM structures at a system level and to develop frame models for simulating the nonlinear flexural and

shear behaviors of these wall systems To capture the nonlinear in plane cyclic behavior of flexure dominated RM walls a rational modeling method along with suitable material models using a fiber section beam column element idealization is presented The modeling method accounts for the buckling and low cycle fatigue of vertical reinforcing bars as well as plastic strain localization which may develop in RM walls under severe seismic actions The model has been validated by experimental data on fully grouted planar walls and T walls In addition a rational and simple method to construct lateral force vs lateral displacement backbone curves is also presented The proposed method produces backbone curves that show a good agreement with experimental data from the quasi static cyclic loading tests of walls with rectangular and T sections There had been a lack of experimental data showing the ultimate displacement capacity of shear dominated RM wall systems To fill this data gap a shake table test program was carried out to investigate the displacement capacity of shear dominated RM wall systems and the influence of wall flanges and planar walls perpendicular to the direction of shaking out of plane walls on the seismic performance of a wall system Two full scale single story fully grouted RM wall specimens were tested to the verge of collapse Each specimen had two T walls as the seismic force resisting elements and a stiff roof diaphragm The second specimen had six additional planar walls perpendicular to the direction of shaking The two specimens reached maximum roof drift ratios of 17% and 13% respectively without collapsing The high displacement capacities can be largely attributed to the presence of wall flanges and for the second specimen also the out of plane walls which provided an alternative load path to carry the gravity load when the webs of the T walls had been severely damaged A computationally efficient beam column model is proposed to simulate the nonlinear flexural and shear behaviors of reinforced masonry shear walls for time history analysis A three field mixed formulation based on the Hu Washizu variational principle is adopted This mixed element is free of shear locking and allows a wall to be modeled with one element To capture the nonlinear behavior of a reinforced masonry wall the axial and flexural responses are evaluated at each integration point along the element with a fiber section model while the shear response in each loading direction is represented by a macro material model The model accounts for the influence of the axial load wall aspect ratio and the flange on the shear response of a wall To consider axial flexure shear interaction the shear model accounts for the axial stress resultant from the fiber section model and the compressive strength of masonry in the fiber section model decreases when severe shear damage developed The model has been calibrated and validated with extensive test data It has been demonstrated that the model is able to reproduce the experimental results from quasi static cyclic loading tests of single walls as well as shake table tests of wall systems with good accuracy

Unveiling the Magic of Words: A Report on "**Seismic Performance Of Gypsum Walls Experimental Test Program Curee**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Seismic Performance Of Gypsum Walls Experimental Test Program Curee**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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great will be their peace dear god i invite your presence into the kindergarten classrooms where my kid learns daily asking that you transform them into spaces of joy growth and wonder

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