ANDREI M. REINHORN PE, PhD

Professor Emeritus

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Andrei M. Reinhorn, PE PhD is a Clifford Furnas Eminent Professor Emeritus in the Department of Civil Structural and Environmental Engineering at University at Buffalo (SUNY), where he taught courses in structural engineering with emphasis on experimentation and simulations in structural dynamics and earthquake engineering. He conducted experimental and analytical research on structural control and on inelastic seismic behavior of buildings and bridge systems. He preformed experimental studies and developed computational tools using generic macro-models for simulation of inelastic behavior of structures during progressive collapse. He was one of the initiators of the disaster management using resilience concepts leading to the resilience based design. He published in excess of seven hundred articles and reports in archival journals, conference proceedings and institutional publications. He developed several computer platforms on inelastic dynamic analysis (IDARC series) and base isolations (3DBASIS series), currently used by engineers and researchers around the world. He was a member of MCEER's executive committee and directed its' networking program. He was the leading team member of the expansion and served as the founding Director of the University at Buffalo's Structural Engineering and Earthquake Simulation Laboratory, hosting the most versatile equipment site of the George E. Brown Network for Earthquake Engineering Simulation (NEES). He served as one of the founding members of the Board of Directors of NEESinc., the organization that coordinated the new network, and is the past chair of the Data Sharing and Archiving Committee. He led the effort of development of NEES Data Sharing and Archiving national policies and developed a comprehensive model for data architecture. A former Chair of his Department, he served in the Presidential Review Board for promotions and tenures at University at Buffalo, and in other departmental, school and university assignments. He taught routinely design and analysis classes, and hands on experimentation. He educated numerous graduates (MS, PhD) now in leadership positions in academe and industry. He is the recipient of 2015 ASCE Moisseiff Award, 2011 ASCE Nathan M. Newmark Medal, 2007 SUNY Chancellor Award for Excellence in Scholarship and Creative Activity, 2005 ASCE-CREF Charles Pankow Award for Innovation, among numerous others.

PERSONAL DATA

EDUCATION: *Doctor of Science in Civil Engineering*, (D.Sc.) equiv. Ph.D., 1978; Technion - Israel Institute of Technology - Haifa, Israel; Thesis: *Static and Dynamic Torsional Coupling in Tall Building Structures.*

Bachelor of Science in Civil Engineering, (B.Sc.) 1968; Technion - Israel Institute of Technology - Haifa, Israel; Major: Structural Engineering.

Bachelor - Gymnasium Diploma - 1963; "Alex I. Cuza" High School - Bucharest, Romania

LICENSES: *Professional Engineer* – PE - New York State, #59572 - since 1982

Professional Engineer – PE - Israel, #07402- since 1969

TRAINING: Operation of Seismic Simulation Systems - MTS, Minneapolis, MN - 1982

Experimental Methods in Earthquake Engineering - University of California at Berkeley, Berkeley, CA - 1983

PERSONAL: B.10/23/1945 Bucharest, Romania; Married Tova (1968) + 2 Children + 5 Grandchildren

CITIZENSHIP: U.S. Naturalized Citizen, since 1987

LANGUAGES: English, Hebrew, Romanian, French

EMPLOYMENT HISTORY

ACADEMIC

STATE UNIVERSITY OF NEW YORK AT BUFFALO, Buffalo, NY
Professor Emeritus 2013-
Clifford C. Furnas Eminent Professor, 2002-2013;
Department Chairman (CSEE) 1996-1999;
Professor 1990-2002;
Associate Professor 1986-1990;
Assistant Professor 1981-1986;
Visiting Assistant Professor 1979-1981
TECHNION - ISRAEL INSTITUTE OF TECHNOLOGY, Haifa, Israel
Visiting Professor, Lady Davis Fellowships (Fall 1999)
Visiting Professor, Theresa Palay Manson (Spring 1991);
Lecturer - Equivalent of Assistant Professor, 1978-1979;
Instructor, 1975-1978;
Teaching Assistant 1973-1975
UNIVERSITY OF PAVIA, Pavia, Italy
Visiting Professor (Fall 1999)

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PROFESSIONAL

OFFICE OF J. FRUCHTBAUM, Buffalo, NY 1980-1986; Consulting - Structural Engineer (Part-Time);
PRIVATE PRACTICE, Reinhorn Consulting, Haifa, Israel -Structural Engineer 1973-1979;
MILSTEIN-ZINGER CONSULTING ENGINEERS, Tel - Aviv, Israel-Structural Engineer- 1972-1973;
CORPS OF ENGINEERS - ISRAEL DEFENSE FORCES, Haifa, Israel 1968-1972 Design Engineer and Project Manager (Acting Captain)

PRIVATE CONSULTING - REINHORN CONSULTING ENGINEERS

ATC –APPLIED TECHNOLOGY COUNCIL Redwood City CA, 2005-2009;
JOHN A. MARTIN & Associates, Los Angeles, CA 1993-2010;
BASE ISOLATION CONSULTANTS, San Francisco, CA 1993;
ANDCO ENVIRONMENTAL PROCESSES, Inc., Amherst, NY 1993;
LE MESSURIER & Associates, Boston, MA 1992-1993;
FLEMING Corp., San Francisco/ Los Angeles, CA 1990-1994;
WALTER P. MOORE & Associates, Houston, TX; 1991-1992;
DAMES & MOORE, Los Angeles, CA 1989-1990;
T. SULLIVAN/WEST VALLEY NUCLEAR DUMP, Buffalo, NY 1987-1993;
WESTINGHOUSE ELECTRIC CO., Bloomington, IN 1986-1987;
WALT DISNEY WORLD CO., Lake Buena Vista, FL 1985-1986;
WATSON, BOWMAN AND ACME, INC., Buffalo, NY; 1984-1985;
WESTWOOD PHARMACEUTICALS, INC., Buffalo, NY 1983-1986;
WSF INDUSTRIES, INC., Buffalo, NY 1981-1992;
NIAGARA MACHINE AND TOOLS WORKS, Ltd., Buffalo, NY 1972-1979;
MESCO FORMWORKS AND CONSTRUCTION TOOLS, Haifa, Israel 1981-1992;
INTERNATIONAL FERROCEMENT INFORMATION CENTER, AIT, Bangkok, Thailand 1981-1982;
PENNSYLVANIA PLASTICS PRODUCTS, Eldred, PA 1981-1982

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PROFESSIONAL ACTIVITIES

SPECIAL ASSIGNMENTS

Member of Presidential Review Board (PRB) at University at Buffalo (2005-2007)
Chairman, Decanal Review Committee - School of Informatics, University at Buffalo (2005-2006)
Chairman, International Advisory Board Ben-Guirion University, Program in Structural Engineering (2005-2007)
Member Board of Directors, George E. Brown Jr. Network for Earthquake Engineering Simulation Inc (NEESinc) (2003-2005, Reelected 2005-2008)
Chairman, Data Sharing and Archiving Committee, NEESinc.(2003-2005)
Member of Executive Committee of Multidisciplinary Center for Eartquake Engineering Research (1996-2007)

Director, Structural Engineering and Earthquake Simulation Laboratory, University at Buffalo/CSEE (2000-2007)
Senior Associate Editor, Earthquake Spectra, Journal of EERI (2001-2006)
Chairman, Technical Program Committee, 7th US National Conference in Earthquake Engineering, (1999-2002).
Member of Organizing Committee, 7th US Conference on Earthquake Engineering (1999-2002)
Corresponding Member of Technical Subcommitte 2 (by invitation) for development of the 2000 NEHRP Provisions for Seismic Regulations for New Buildings Structures, Building Seismic Safety Council, Washinghton, DC., since 1993.
Member of NCHRP 12-49 Project Team - Comprehensive Specifications for the Seismic Design of Bridges - Revised LRFD Specifications (Seismic provisions) - 1998-1999
Member of AD-HOC Committee of the Israeli Council of Higher Education for examination of new programs on Civil Engineering in Israeli Universities, 1998-present
Steering Committee 12ECEE (2001-2002)

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MEMBERSHIP IN PROFESSIONAL ASSOCIATIONS

NETWORK FOR EARTHQUAKE ENGINEERING SIMULATIONS (NEESinc)- Member (2002), Board of Directors (2003-2008), Chair, Data Sharing and Archiving Committee,
MULTIDISCIPLINARY CENTER FOR EARTHQUAKE ENGINEERING RESEARCH (MCEER) (1997-pres.); - Member Executive Committee and Investigator
AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) - Fellow #196569 (1981-pres.); Fellow since December 1, 1994; President Buffalo Section (1993-1994), [President Elect, Vice President, Secretary, Treasurer, Director (Buffalo Section)](1988-1996); Chairman, Committee on Active Control/Engineering Computations (1991-1994); Member of National Committee of Dynamics/Engineering Mechanics Division (1989-1993); Chairman, Structures / Computer Committee, (Buffalo Section 1986-1990); Faculty Adviser, (Buffalo Section 1981-1984)
STRUCTURAL ENGINEERING INSTITUTE (SEI) of ASCE, Fellow #196569 (2000-pres.); (subset of ASCE)
ENGINEERING MECHANICS INSTITUTE (EMI) of ASCE, Fellow #196569 (2005-pres.); (subset of ASCE)
EARTHQUAKE ENGINEERING RESEARCH INSTITUTE (EERI) Member #470 (1986-pres.); Member EERI Committee on Experimental Research, Member of Editorial Board of Earthquake Spectra, Associate Editor (2004-2008)
AMERICAN CONCRETE INSTITUTE (ACI) - Member #3/615694 (1982-2002); Member of Committees: ACI-449 Seismic Loadings, ACI-118 Use of Computers
ASSOCIATION OF ENGINEERS AND ARCHITECTS IN ISRAEL (1969-1979)
INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS- Member #0446805

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EDITORIAL POSITIONS

"Journal of Structural Control and Health Monitoring" – Member Editorial Board (2008-pres)
"The Structural Design of Tall and Special Buildings", Member International Editorial Board (1998-present)
"Earthquake Spectra", Deputy Chief Editor – Senior Associate Editor (2003-2008)
"ASCE/ Journal of Structural Engineering", Assoc. Editor (2001-2004)
"Advances in Earthquake Engineering," Assoc. Editor (Beskos & Kaussel, eds.)

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REVIEWER

NATIONAL SCIENCE FOUNDATION/ Earthquake Hazard Mitigation Program;
NATIONAL SCIENCE FOUNDATION/ Engineering Initiation Awards;
AMERICAN CONCRETE INSTITUTE/Structural Journal;
AMERICAN CONCRETE INSTITUTE/Concrete International Journal;
AMERICAN SOCIETY OF CIVIL ENGINEERS/Journal of Structural Engineering;
AMERICAN SOCIETY OF CIVIL ENGINEERS/Journal of Engineering Mechanics;
ASME/Journal of Dynamic Systems, Measurements and Control;
ASME/Journal of Vibration, Acoustics, Stress and Reliability in Design;
JOURNAL OF ENGINEERING ANALYSIS;
JOURNAL OF OPTIMAL CONTROL - Applications and Methods;
JOURNAL OF STRUCTURAL CONTROL AND HEALTH MONITORING;

EARTHQUAKE ENGINEERING and STRUCTURAL DYNAMICS, International Journal;
EARTHQUAKE ENGINEERING RESEARCH INSTITUTE - Earthquake Spectra
THE STRUCTURAL DESIGN OF TALL AND SPECIAL BUILDINGS;

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WORKSHOPS / SESSIONS CHAIRMAN

CHAIRMAN, Session on Numerical Methods in Experimental Mechanics, SES, 3rd Annual Meeting, Buffalo, August 1986.;CHAIRMAN/ORGANIZER, Forum on Structural Applications of Protective Systems for Earthquake Hazard Mitigation, NCEER/SUNY, Buffalo, May 1987.; CHAIRMAN, Session on Seismic Behavior of Structural Systems, ASCE/EMD Specialty Conference, Buffalo, May 1987.; VICE-CHAIRMAN, Session on Hardware Innovations, Workshop on Seismic Computer Analysis and Design of Buildings with Interactive Graphics, NCEER/Cornell University, August, 1987; VICE-CHAIRMAN, Sessions on Structural Control and Isolations, ASME/Design Technology Conferences, 11th Biennial Conference on Mechanical Vibrations and Noise, Boston, Sept. 1987; VICE-CHAIRMAN & PANELIST, 3rd Symposium of Seismic Shock and Vibration Isolation, ASME/PVP Conference, Honolulu, Hawaii, July 1989; CHAIRMAN, Session of Workshop: New Trends and Applications of Distributed Parameter Control Systems, Minneapolis, Minnesota, August 7-12, 1989.;CHAIRMAN/Session Organizer, "Active Control of Structural Vibrations - Toward Applications", 8th ASCE/Structures Congress, Baltimore, ME, April 1990; CHAIRMAN/Session on "Seismic Design of Structural Systems", 4th U.S. National Conference on Earthquake Engineering, Palm Springs, CA, May 20-23, 1990; CHAIRMAN/Session Organizer, "Active and Passive Control of Structural Vibrations", 9th ASCE/EMD Specialty Conference, Columbus, OH, May 1991; CHAIRMAN/Session Organizer, "Efficiency of Active Passive and Hybrid Control Systems for Seismic Protection, 9th ASCE/Structures Congress, Indianapolis, IN, May 1991; CHAIRMAN/Session Organizer, "Damage Risk in Design of Seismic Structures", 9th ASCE/Structures Congress, Indianapolis, IN, May 1991; CHAIRMAN/Session Organizer, "Active Control of Space Structures", IASS-CSCE/Congress of Space Structures, Toronto, Canada, July 1992; CO-CHAIRMAN/Organizer, Session on Structural Control, ASCE/Structures Congress 94, Atlanta, May 1994; CHAIRMAN, "Workshop on Damage Quantification and Performance Evaluation," NCEER, San Francisco, Feb. 7-8, 1995; CHAIRMAN/Session Organizer, "Seismic Retrofit of Structures," ASCE/Structures Congress 95, Boston, May 1995. CHAIRMAN/Session Organizer, "Probabilistic Methods in Structural Control," EMD/ASCE/Structures Congress 96, Worcester, June, 1996; SESSION CHAIR, 4th World Congress on Joint Sealing and Bearing Systems for Concrete Structures; MEMBER/International Scientific Advisory Committee of First International Symposium on Earthquake Resistant Engineering Structures 96, Oct. 30 - Nov. 1, 1996, Tessaloniki, Greece; SESSION CHAIRMAN/Workshop on Earthquake Engineering - Evaluation, Design, and Practice," Kefar HaMakabiah, Israel, March 97., INTERNATIONAL ADVISORY COMMITTEE, STESSA 2000-Behavior of Steel Structures in Seismic Areas, Aug. 22-24, 2000 Montreal CA; SESSION CHAIRMAN/12 World Conference in Earthquake Engineering, Auckland, New Zealand, SESSION (x2) CHAIRMAN at "Network For Earthquake Engineering Simulation (NEES) Grid Integration, Los Angeles, Nov. 2000, SESSION CHAIRMAN "2002 Structures Congress, INTERNATIONAL ADVISORY COMMITTEE, 2000.; ERES 2001- Earthquake Resistant Engineering Structures, September 4-6, 2001, Malaga, Spain., INTERNATIONAL ADVISORY COMMITTEE, 12th European Conference in Earthquake Engineering, London UK, September 2002, CHAIRMAN, TECHNICAL PROGRAM COMMITTEE, 7th US National Conference in Earthquake Engineering, Boaton, MA (1999-2002), Member of Organizing Committee, 7th US Conference on Earthquake Engineering (1999-2002), "Member International Scientific Committee". - 12ECEE, 2002, SESSION CHAIRMAN - MODERATOR – ASCE Structures Congress, Seattle May 2003, "Member International Advisory Committee" of STESSA 2003, SESSION CHAIRMAN 13 World Conference in Earthquake Engineering, Vancouver, Canada, 2004, SESSION CHAIRMAN - MODERATOR – 1st AESE, Nagoya Japan, Aug 2005, SESSION CHAIRMAN - MODERATOR – 8th US Nat'l Conf. in Earthq. Eng., San Francisco, May 2006, INTERNATIONAL ADVISORY BOARD, COMPDYN, Crete, Greece, 2007, 2009; etc.;

< not updated after 2007>.

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AWARDS AND HONORS

2015 ASCE-Moisseiff Award – "Simulated Bilinear-Elastic Behavior in a SDOF Elastic Structure Using Negative Stiffness Device: Experimental and Analytical Study"
2011 ASCE-Nathan M. Newmark Medal
2007 SUNY Chancellor's Award for Excellence in Scholarship and Creative Activity
2006 UB - University at Buffalo - "Exceptional Scholar" Sustained Achievement Award
2005 NEES Outstanding Service Award - for development of NEES Data Sharing and Archiving
*2*005 *ASCE/CERF Charles Pankow Award for Innovation*- "Coupled Truss Walls with Damped Link Elements" (with WSF Cantor-Seinuk, With E.M. Romero(SA), with Taylor Devices Inc, with UB / SUNY) with M.C. Constantinou
2003 UB - University at Buffalo - Clifford C. Furnas Eminent Professor
2002 Engineer of the Year Award, NYSPE
1998 AGC - Build San Diego Award for NCEER project of seismic protection of Naval Station Bldg
1996 Outstanding 1995 Journal Paper Award - Los Angeles Tall Buildings Structural Design Council: "Seismic Performance Analysis of a Multistory Steel Moment Frame Building Damaged During the 1994 Northridge Earthquake" (awarded 1996);
1995 Outstanding Achievements Award - Los Angeles Tall Buildings Structural Design Council: for outstanding contributions to the advancement of state-of-the-art in structural analysis techniques;
1995 Honorable Mention Award of Seventh North American Masonry Conference - "Flexural Behavior of Unreinforced Masonry Shear Walls with Unbonded Reinforcement";
1995 NYSPE/Buffalo Historical Society-Historical Achievement Award: "Active Control Implementation";
1992 Best Paper Award - 3rd World Congress on Joint Sealing and Bearing;
1991 Lady Davis Fellowship/Theresa Palay Manson Lectureship/Technion IIT;
1991 Educator of the Year Award, NYSPE;
1984 ASCE *Award for outstanding service*;
1967-1968 Merit Scholarship - Technion, I.I.T
1967-1968 Dean's List - Technion, I.I.T
Listed in
"*Who Is Who in the World"* Marquis Publication (current);
"*Who Is Who in the America"* Marquis Publication, (current);
"*Who Is Who in the East"* Marquis Publication, (current);

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PATENTS

"Press Brake Deflection Compensation Structure", US Patent Number 4,586,361, May 6, 1986 (Inventors: A.M. Reinhorn and G.M. Trautman)
"Diagnostic Techniques for Momentarily Operating Machineries" US Patent Number 4,980,844, December 15, 1990 (Inventors: V. Demjanenko, A. Soom, Y. Lee, T.T. Soong, A.M. Reinhorn and D. Benenson)
"Negative Stiffness Device and Method", US Patent Number 8,857,110, October 14, 2014, (Inventors: M.C Constantinou, A.M Reinhorn, A.A Sarlis, D. Taylor, D.A Lee, S. Nagarajaiah and D.T.R Pasala)
"Compact Negative Stiffness Bracing System", US Patent Number 9,206,616, December 8, 2015 (Inventors: A.A Sarlis, M.C Constantinou, A.M Reinhorn, D. Taylor and D.A Lee)

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Research Grants

Research and Other Competitive Grants

1	Active Control of Civil Engineering Structures Under Earthquake Excitations, (w/ T.T. Soong and J.N. Yang (GWU)), Grant [1]	1/84-1/86	NSF-ECE-8311756	**$327,802**
2	Power Circuit Breaker Diagnostics (w/D. Benenson, T.T. Soong, A. Soom, Y. Lee and V. Demjanenko); EPRI (#2747-1) and NYSERDA (1859-EEED-TD-86)	11/85-11/87	EPRI & NYSERDA	**$260,000**
3	Seismic Safety of Liquid Storage Plastic Tanks (w/Y.J. Park, & R.L. Ketter; including $33,500 materials and consulting from sponsor)[1]	3/87-1/88	NALGE/	**$63,687**
4	Seismic Performance and Risk, (w/Y.J. Park; in cooperation with Cornell Univ., Lehigh Univ., Rice Univ.)[1]	9/86-9/91	NCEER/NSF/NYS	**$690,748**
5	Static and Dynamic Response of Steel Building Frames with Semi-Rigid Connections (in cooperation with Univ. of South Carolina)[1]	9/87-9/89	NCEER/NSF/NYS	**$60,000**
6	Active Seismic Control of - Active Bracing System (w/T.T. Soong; including contributions of MTS Corp., MN, USA ($72,539.00) and Takenaka Company and Kayaba Ind., Japan ($352,000.00))[2]	9/87-9/89	NCEER/NSF/NYS	**$568,930**
7	Passive Control of Building Structures1	9/87-9/89	NCEER/NSF/NYS	**$100,000**
8	Power Circuit Breaker Diagnostics (w/D. Benenson, A. Soom, Y. Lee and V. Demjanenko)	4/88-4/90	EPRI/ NYSERDA	**$200,000**
9	Seismic Isolation of Bridge Structures (w/ M. Constantinou; including $25,000 materials and consulting)1	1/88-1/89	WB &ACME	**$400,002**
10	Seismic Qualification of 500 KV DC Capacitor Bank1 and Computer Bank CCVT-230KV1	4/88-9/89	WESTING-HOUSE	**$9,200**
11	Active Control of Structures (w/T.T. Soong; incl. contributions from MTS Corp., MN, USA ($137,309.00) and Takenaka Co. and Kayaba Ind., Japan ($2,700,000))2	9/89-9/93	NCEER/NSF/NYS	**$3,097,302**
12	Seismic Base Isolated Structures Testing and Modeling, (w/M.C. Constantinou & Nagarajaiah), Contributions Watson Bowman & ACME ($29,000)[2]	9/89-9/90	NCEER/NSF/NYS	**$106,000**
13	Inelastic Structures - Modeling and Analysis of R/C Buildings , (w/S.K. Kunnath)1	9/90-9/95	NCEER/NSF/NYS	**$376,787**
14	Infilled Frames, (w/J.B. Mander & S.P. Prawel)1	9/90-9/96	NCEER/NSF/NYS	**$185,000**
15	Seismic Evaluation of the Tishman Building, Buffalo, N.Y. (w/S.K. Kunnath)[1]	9/90-5/91	NY-NF/ National Fuel	**$16,000**
16	Seismic Performance of Bridge Structures - Analytical Modeling, (w/S.K. Kunnath)1	10/90-5/91	NIST	**$23,000**
17	Development of 3-D Basis computer program for Base Isolated Structures1 Demonstration Tower for Active Control in Akron, Ohio1	9/91-8/92	CIRD	**$23,800**
18	Energy Dissipation Systems, Hybrid Control Systems, and Elastomeric Isolation Systems,1	9/92-8/96	NCEER/NSF/NYS	**$242,250**
19	Retrofit of R/C Structures Using Conventional and Complementary Damping1 (contribution $35,000 Sumitomo Co., Japan & $16,500 Tekton Co., US)	9/93-9/94	NCEER/NSF/NYS	**$252,252**
20	Analytical Modeling of Bridge Structures, (w/M.C. Constantinou)1	9/93-9/95	NCEER/NSF/NYS	**$133,000**
21	Seismic Qualific. of ThermalockTM Block Walls,1	9/93-9/94	THERMALOK / DOE	**$16,400**
22	US/PRC Cooperative Research Program in Structural Control, (w/T.T. Soong PI/PD)	10/94-9/97	NSF-CMS-941234	**$457,000**
23	Seismic Strengthening of a Navy Building with Viscoelastic Dampers, (Fac. Assoc.w/T.T. Soong, PI/PD)	10/94-3/98	US / NAVY	**$1,419,300**
24	University Industry Research Program - Seismic Design of ThermalockTM Block Walls,1	10/94-10/95	NYSERDA	**$49,890**
25	"Analytical Modeling of Bridge Structures, (PI/PD w/M.C. Constantinou)1	9/93-9/97	NCEER/NSF/NYS	**$222,400**

26	Parametric evaluation of differential ground motions in bridge structures (PI/PD w/I.Buckle)1	4/95-3/97	NCEER/FHWA	**$128,000**
27	Development of Nonlinear Static procedure for Rapid Analysis and Design of Highway Bridges1 (PI/PD)	11/97-9/98	NCEER/FHWA	**$95.00**
28	Fragility Evaluation and Calibration1 (PI/PD)	11/97-10/00	MCEER/NSF/NYS	**$186.00**
29	Networking of Computational and Experimental Facilities1	11/98-10/00	MCEER/NSF/NYS	**$86.00**
30	Equipment Grant for Video-Conferencing System1	11/98-10/99	MCEER/NSF/NYS	**$15.00**
31	Development of Analytical Tools for Analysis1	11/99-10/00	MCEER/NSF/NYS	**$26.00**
32	Networking of Computational and Experimental Facilities1	11/00-10/01	MCEER/NSF/NYS	**$29,729**
33	Development of Analytical Tools for Analysis1	11/00-10/01	MCEER/NSF/NYS	**$84,610**
34	Seismic Fragility and retrofit of non-ductile r/c stuctures2 (w/Tsopelas PI/PD)	06/01-5/02	NSF-CMS-0085261	**$74,999**
35	Large Scale High Performance Testing Facility1 PI/PD w/others	01/01–09/04	NSF-CMS-0086611	**$4,379,865**
36	Versatile High Performance Shaking Tables1 PI/PD w/others	01/01-09/04	NSF-CMS-0086612	**$6,160,685**
37	US-Japan Facilities Evaluation (w/ Theva PI/PD)	04/01-09/01	NSF-CMS-0120634	**$36,800**
38	Localized velocity-based energy dissipation systems - Advanced technologies and data for validation of integration methodologies (PI/PD)	10/02-09/03	MCEER/NSF/NYS	**$79,406**
39	Networking of Computational and Experimental Facilities1 Coordination and Networking Infrastructure	10/02-09/03	MCEER/NSF/NYS	**$54,592**
40	Seismic Retrofit of Lifeline Systems: Shaking Table Tests for Fragility of Electric Transformers	10/02-9/03	MCEER/NSF/NYS	**$44,666**
41	Definition and quantification of resilience – A center-wide system-integrated resilience measures	10/02-9/05	MCEER/NSF/NYS	**$45,000**
42	Networking of Experimental Facility – NEES Supplemental Grant1	06/03-9/05	NSF-CMS-0086612	**$458,540**
43	Advanced Data Acquisition – NEES Supplemental Grant1	06/03-9/04	NSF-CMS-0086612	**$118,000**
44	Behavior of Braced Steel Frames with Innovative Bracing Schemes – Leon (GIT), /Reinhorn-PI / Bruneau (UB), Moehle (Berkeley), Shing (Colorado),	10/03–9/04	NSF-CMS-0324277	**$177,681**
45	NEES Consortium Operation: FY 2005-2014 (w Buckle (PI/PD), R, Leon, C Pancake, T, Anagnos, A Reinhorn Co-PIs) - in behalf of NEESInc	10/04-9/09	NSF-CMS-0402490	**$106,848,913**
46	Sesismic Global Retrofit of Structures by Strength Reduction and Damping Enhancement (PI/PD)	10/04-9/07	MCEER/NSF/NYS	**$233,500**
47	Networking of Experimental and Computational Facilities (PI/PD)	10/04-9/07	MCEER/NSF/NYS	**$154,000**
48	Seismic Retrofit of Lifelines: Fragility of High Voltage Electrical Equipment: Bushings and Disconnect Switches (PI/PD)	10/04-9/07	MCEER/NSF/ EPRI	**$133,000**
49	Quantification of Resilience Dimensions for Specific Facilities -(w/Bruneau PI/PD, Tierney, Shinozuka, Chang, Rose, Davidson, Filiatrualt)	10/04-9/07	MCEER/NSF/NYS	**$41,650**
50	Maintenance, Operations, and Management of NEES services of Structural Engineering and Earthquake Simulation Laboratory (Reinhorn PI/PD, w Bruneau, Constantinou, Whittaker and Filiatrault)	10/04-9/09	NSF/NYS (NEESinc)	**$7,373,625**
51	Hamiltonian Methods for Dynamic Analysis of Detriorrating Structuresin Multi-Hazard Environments (w/Dargush PI/PD)	10/05-9/07	MCEER/NSF/NYS	**$110,000**
52	Analysis of Collapse of Structures (PI/PD w/G Dargush, M Sivaselvan, O. Lavan) incl $90,000 at U Colorado	10/05-9/07	CUREE-KAJIMA	**$120,000**
53	Analysis of Collapse of Structures (PI/PD w/G Dargush, M Sivaselvan, O. Lavan) incl $80,000 at U Colorado-renewed	04/08-03/10	CUREE-KAJIMA	**$100,000**
54	Quantification of Organizational Resilience for Health Care Facilities -(w/Bruneau PI/PD)	10/06-09/09	DHS/PACER	**$132,000**

55	NEESR-GC- Nonstructural Components (Filiatrault PI, CoPI UB) - AMR -Share $54,163	10/07-09/12	NSF-CMMI-0721399	**$765,499**
56	Seismic Evaluation and Modeling of Transformers (Reinhorn, PI-PD, Filiatrault CoPI)	06/08-03/09	BONEVILLE.P.AD.	**$129,000**
57	NEESR-SG- Adaptive Control (Nagarajaiah PI-PD, Reinhorn, PI- UB, Constantinou, Co-PI)-UB Share $467,780	10/08-09/12	NSF-CMMI-0830391	**$1,600,000**
58	Improved Seismic Perfomance of Transformer Bushings (Reinhorn, PI-PD, Filiatrault CoPI)	10/08-03/10	CALIF.ENERG.COMS	**$241,430**
59	Seismic Protection of Transformers and Substation Equipment (Reinhorn, PI-PD, Filiatrault CoPI, Constantinou, CoPI)	04/08-09/12	BONEVILLE.P.AD.	**$1,170,000**
60	A Framework for Defining and Measuring Disaster Resilience at the Community Scale(Reinhorn, PI-PD,Bruneau, CoPI, Renschler, CoPI)	09/09-09/10	NIST-60NANB9D9155_0	**$69,751**

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Major Capital Equipment & Service Grants

1	Automated Control/Data Acquisition System for Buffalo's Earthquake Simulator (Faculty associate w/G.C. Lee Principal Investigator)	1983	NSF	**$197,824**
2	Earthquake Engineering and System Dynamics Research Center, (Faculty Associate w/R.L. Ketter, Center Director)	10/85-10/86	SUNY/Buffalo	**$100,000**
3	Addition and Expansion of Ketter Hall - Structural Engineering and Earthquake Engineering Laboratory	1999-2003	State of New York	**$9,000,000**

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International Travel Grants

1	International Travel Grant for International Symposium on ferrocement, Bangkok 1985.(Recommended by ACI/Committee 549).	1/1/85	NSF	**$1,500**
2	International Travel Grant for 9th World Conference on Earthquake Engineering (9WCEE - Tokyo, Japan). (Award based on national competition).	8/1/88	NSF/EERI	**$1,610**
3	International Travel Grant for Milestone Meeting on Active Control (Japan). Taknaka, Kayaba	8/1/88	TAKENAKA	**$2,000**
4	Workshop on Energy Methods - Bled, Slovenia	7/1/92	NSF/Stanford	**$1,600**
5	US/China/Japan Trilateral Workshop on Active Control, Shanghai, China	10/1/92	NSF	**$2,000**
6	US/Japan Workshop on Active Control, Hawaii, U.S.	8/1/93	NSF/USC	**$2,000**
7	Workshop on Energy Methods - Bled, Slovenia	6/1/97	NSF/Stanford	**$1,600**
8	Workshop on Energy Methods - Bled, Slovenia	6/4/06	NSF/PEER	**$1,600**

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Summary Grants

Research and Other Competitive Grants	**$15,633,012**
Special Equipment Grants (NEES)	**$17,914,175**
Group Organization Grants	**$106,848,913**
Major Capital Equipment & Service Grants	**$9,297,824**
International Travel Grants	**$13,910**

PUBLICATIONS

HONORARY BOOK

1. "Computational Methods, Seismic Protection, Hybrid Testing and Resilience in Earthquake Engineering - A Tribute to the Research Contributions of **Prof. Andrei Reinhorn"** (2015), Cimellaro, G. P., Nagarajaiah S., and Kunnath S.K. (eds.), *Geotechnical, Geological and Earthquake Engineering Series*, Vol 33, Springer International Publishing Co., 329p, (ISBN 978-3-319-06393-5)

   The book is a tribute to the research contribution of Professor Andrei Reinhorn in the field of earthquake engineering. It covers all the aspects connected to earthquake engineering starting from computational methods, hybrid testing and control, resilience and seismic protection which have been the main research topics in the field of earthquake engineering in the last 30 years. These were all investigated by Prof. Reinhorn throughout his career. The book provides the most recent advancements in these four different fields, including contributions coming from six different countries giving an international outlook to the topics.

BOOKS - MONOGRAPHS

2. Deierlein, G.G., Reinhorn A.M. and Willford, M.R. (2010) , "Nonlinear Structural Analysis for Seismic Design- A Guide for Practicing Engineers", NEHRP Seismic Design Technical Brief No. 4, produced by NEHRP Consultants Joint Venture Partnership of Applied Technology Council and Consortium of University for Earthquake Engineering research for the National Institute of Standards and Technology, Gaithersburg, MD, (NIST GCR 10-917-5)
3. Chu, S.Y., Soong, T.T. and Reinhorn, A.M. (2005) "Active, Hybrid, Semi-Active Structural Control - A Design and Implementation Handbook", John Wiley and Sons (ISBN-13 978-0-470-01352-6)
4. Falconi, R. A, Barbat, A. H., Reinhorn A.M. and C.J. (1993), "Seismic Damage and Vulnerability in Reinforced Concrete Structures", Editorial ESPE, Ejecito Polytechnic School, Santa Clara-Valle de Los Chillos, Ecuador (ISBN-9978-92-057-9), (in Spanish)

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BOOKS CHAPTERS

5. Reinhorn, A. M., and Cimellaro G. P. (2012), "Chapter 27: Consideration of Resilience of Communities in Structural Design", in *Performance-Based Seismic Engineering: Vision for an Earthquake Resilient Society*, Fischinger, Matej (Ed.), Publisher: Springer Netherlands, ISBN: 978-94-017-7930-2, pp: 401-421
6. Cimellaro, G.P. Reinhorn, A.M. and Bruneau M. (2015), "Chapter 9: Metamodel Assisted Performance-Based Optimization for Hospital Systems", in N.D. Lagaros, Y. Tsompanakis and M. Papadrakakis, (Editors), "New Trends in Seismic Design of Structures", Saxe-Coburg Publications, Stirlingshire, UK, Chapter 9, pp 241-288, 2015. doi:10.4203/csets.37.9
7. Cimellaro, G. P., Fumo, C., Reinhorn, A. M., and Bruneau, M. (2008). "Chapter 30: Metamodel Assisted Performance-Based Optimization for Hospital Systems." in *New Trends in Seismic Design of Structures*, Editors: Y. T. Nikos Lagaros, Manolis Papadrakakis, ed.,
8. Reinhorn, A M. Sivaselvan, M.V. Dargush G.F. & Lavan, O. (2008), "Chapter 20: Mixed Lagrangian Formulation in Analysis of Collapse of Structures", in *Progress in Computational Structural Dynamics and Earthquake Engineering*, Editors: Papadrakakis, M., Charmpis, D.C. Lagaros N.D. & Tsompanakis Y., *A.A. Balkema Publishers*, Taylor & Francis The Netherlands, 325-337
9. Constantinou, M.C., Reinhorn, A., Tsopelas, P., and Nagarajaiah, S. (1999), "Techniques in nonlinear dynamic analysis of seismic isolated structures," in *Structural Dynamic Systems Computational Techniques and*

Optimization - Seismic Techniques, Leondes, C.T. (ed), Gordon and Breach International Series in Engineering, Technology and Applied Science, V12, 1-24

10. Constantinou, M.C. and Reinhorn, A.M. (1995), "Seismic Isolation and Control", in *Computer Analysis and Design of Earthquake Resistant Structures*, Elsevier Applied Science, London.

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REVIEWED PAPERS IN JOURNALS

11. Ryu, K.P. and Reinhorn, A.M., (2017), "Experimental study of large area suspended ceilings", in *Journal of Earthquake Engineering*, xx: xxx-xxx DOI:10.1080/13632469.2017.1342294
12. Ryu, K.P. and Reinhorn, A.M., (2017), "Analytical study of large area suspended ceilings", in *Journal of Earthquake Engineering*, xx: xxx-xxx, DOI:10.1080/13632469.2017.1326416
13. Shmerling A., Levy R. and Reinhorn, A.M., (2017), "Seismic retrofit of frame structures using passive systems based on optimal control", *Journal of Structural Control and Health Monitoring*, 24(2), xxx-xxx, DOI: 10.1002/stc.2038 (on-line)
14. Ryu, K.P. and Reinhorn, A.M., (2017), "Real Time Control of Shake Tables for Nonlinear Hysteretic Systems", in *Journal of Structural Control and Health Monitoring*, 24(2), xxx-xxx, DOI: 10.1002/stc.1871 (on-line)
15. Cimellaro, G., Renschler, C., Reinhorn, A.M., and Arendt, L. (2016). "PEOPLES: A Framework for Evaluating Resilience." *ASCE Journal of Structural Engineering*, 142(10), xxxx-xxxx, DOI: 10.1061/(ASCE)ST.1943-541X.0001514- Editor's Choice (December, 2016) (on-line)
16. Cimellaro, G.P., Duenas-Osorio L and Reinhorn, A.M. (2016), "Special Issue on Resilience-Based Analysis and Design of Structures and Infrastructure Systems", *ASCE Journal of Structural Engineering*, 142(8), xxxx-xxxx, DOI: 10.1061/(ASCE)ST.1943-541X.0001592, C2016001(on-line)
17. Sarlis A.A., Pasala D.T.R., Constantinou M., Reinhorn, A.M., Nagarajaiah S., and Taylor D. (2016), "Negative Stiffness Device for Seismic Protection of Structures -Shake Table Testing of a Seismically Isolated Structure", *ASCE/Journal of Structural Engineering*, 142(5), xxxx-xxxx, DOI: 10.1061/(ASCE)ST.1943-541X.0001455 , 04016005 (on-line)
18. Soroushian, S., Rahmanishamsi, E., Ryu, K.P. Maragakis, E.M. and Reinhorn A.M., (2016), "Experimental Fragility Analysis of Suspension Ceiling Systems", in *Earthquake Spectra*, 32(2), 881-908, DOI: http://dx.doi.org/10.1193/071514EQS109M
19. Epackachi S, Dolatshahi K.M., Oliveto N.D., and Reinhorn A.M., (2015), "Mechanical behavior of electrical hollow composite post insulators: Experimental and analytical study", in *Engineering Structures*, 39(3), 129-141
20. Attary D.N., Symans M., Nagarajaiah S., Reinhorn A.M., Constantinou M.C., Sarlis A.A., Pasala D.T.R., and Taylor, D. (2015), "Numerical Simulations of a Highway Bridge Structure Employing Passive Negative Stiffness Device for Seismic Protection", *Earthquake Engineering and Structural Dynamics*, 44(6), 973-995
21. Attary D.N., Symans M., Nagarajaiah S., Reinhorn A.M., Constantinou M.C., Sarlis A.A., Pasala D.T.R., and Taylor, (2015), "Experimental Shake Table Testing of an Adaptive Passive Negative Stiffness Device within a Highway Bridge Model", in *Earthquake Spectra*, 31(4), 2163-2194
22. Attary D.N., Symans M., Nagarajaiah S., Reinhorn A.M., Constantinou M.C., Sarlis A.A., Pasala D.T.R., and Taylor, D. (2015), "Performance Evaluation of Negative Stiffness Devices for Seismic Response Control of Bridge Structures Via Experimental Shake Table Tests", *Journal of Earthquake Engineering*, 19(2), 249-276
23. Cimellaro G.P., Scura G., Renschler C.S., Reinhorn A.M. and Kim H.U., (2014), "Rapid Building Damage Assessment System Using Mobile Phone Technology", in *Journal of Earthquake Engineering and Engineering Vibrations*, 13: 519-533
24. Pasala D.T.R., Sarlis A.A., Reinhorn A.M., Nagarajaiah S., Constantinou M., and Taylor, D. (2014), "Apparent-Weakening in SDOF Yielding Structure using Negative Stiffness Device: Experimental and Analytical study", *ASCE Journal of Structural Engineering*, 141(4), 04014130-1:8
25. Pasala D.T.R., Sarlis A.A., Reinhorn A.M., Nagarajaiah S., Constantinou M., and Taylor, D. (2014), "Simulated Bilinear-Elastic Behavior in a SDOF Elastic Structure Using Negative Stiffness Device: Experimental and Analytical Study", *ASCE Journal of Structural Engineering*, 140(2), 004013049-1:13
26. Cimellaro, G.P., Chiriatti, M, Roh, H. and Reinhorn, A.M, (2014), "Seismic Performance of Industrial Sheds and Liquefaction Effects During May 2012 Emilia Earthquakes Sequence in Northern Italy", *Journal of Earthquake and Tsunami*, 8(2), World Scientific Publishing Company, 10.1142/S1793431114500092
27. Ray, T., Schachter-Adaros, M.S. and Reinhorn, A.M.(2014),"Flexibility-corotational formulation of space frames with large elastic deformations and buckling", in *Computer-Aided Civil and Infrastructure Engineering - International Journal*, 30(1), 54-67
28. Ray T. and Reinhorn, A.M. (2014), "Enhanced Smooth Hysteretic Model with Degrading Properties", *ASCE Journal of Structural Engineering*, 140(1), 04013028

29. Ray T., Sarlis, A., Reinhorn, A.M. Nagarajaiah S., and Constantinou, M.C. (2013), "Hysteretic Models for Spherical Sliding Bearings", *Earthquake Engineering and Structural Dynamics*, 42(15), 2341-2360
30. Ray T, Reinhorn A.M and Nagarajaiah S., (2013), "Nonlinear-Elastic and Inelastic Spectra with Inherent and Supplemental Damping", *Earthquake Engineering and Structural Dynamics*, 42(14), 2151-2165
31. Nagarajaiah S., Pasala D.T.R., Reinhorn A.M., Constantinou M., Sarlis A.A., and Taylor, D. (2013), "Adaptive Negative Stiffness: A New Structural Modification Approach for Seismic Protection", *Advanced Materials Research*, Trans. Tech Publications, Switzerland, V.639-640, 54-66, DOI:10.4028/www.scientific.net/ AMR.639-640.54
32. Koliou, M., Filiatrault A. and Reinhorn A.M. (2013), "Seismic Response of High Voltage Transformer Bushing Systems Incorporating Flexural Stiffeners I: Numerical Study", in *Earthquake Spectra*, 29(4), 1335-1352
33. Koliou, M., Filiatrault A. and Reinhorn A.M. (2013), "Seismic Testing of High Voltage Transformer Bushing Systems Incorporating Flexural Stiffeners II: Experimental Study", in *Earthquake Spectra*, 29(4), 1353-1367
34. Pasala D.T.R., Sarlis A.A., Nagarajaiah S., Reinhorn A.M., Constantinou M., and Taylor, D. (2012), "Adaptive Negative Stiffness: A New Structural Modification Approach for Seismic Protection", *ASCE/Journal of Structural Engineering*, 139(7), 1112-1123
35. Sarlis A.A., Pasala D.T.R., Constantinou M., Reinhorn, A.M., Nagarajaiah S., and Taylor D. (2012), "Negative Stiffness Device for Seismic Protection of Structures", *ASCE/Journal of Structural Engineering*, 139(7), 1124-1133
36. Roh, H., Reinhorn A.M. and Lee J.S., (2012), "Modeling and Cyclic Behavior of Segmental Bridge Column Connected with Shape Memory Alloy Bars", in *Journal of Earthquake Engineering and Engineering Vibrations*, 11(3), 375-389, DOI: 10.1007/s11803-012-0128-y
37. Roh, H., Reinhorn A.M. and Oliveto N., (2012), "Experimental test and modeling of hollow-core composite insulators" in *Nonlinear Dynamics*, 69(4), 1651-1663
38. Roh, H. and Reinhorn A.M., (2012), "Power Spread Plasticity Model for Inelastic Behavior of Reinforced Concrete Structures", in *Engineering Structures*, 39(6), 148-161
39. Reinhorn, A.M., Maddaloni G. and Ryu K.P. (2012), "Response to Discussion of paper "Simulation of floor response spectra in shake table experiments" by G. Maddaloni, KP Ryu and AM Reinhorn, Earthquake Engineering and Structural Dynamics 2011; 40(6), 591–604 (Discussion" by Huang, Chen, and Lu), in *Journal of Earthquake Engineering and Structural Dynamics*. 41(6),1345–1346
40. Shao, X and Reinhorn A.M., (2012), "Development of a Controller Platform for General Force-Based Real Time Hybrid Simulation", *Journal of Earthquake Engineering*, 16(2), 274-295
41. Cimellaro, G.P., Reinhorn, A.M, and De Stefano, A., (2012), "Reply to "Discussion 2 on 'Introspection on improper seismic retrofit of Basilica Santa Maria di Collemaggio after 2009 Italian earthquake' by G.P. Cimellaro, A.M. Reinhorn and A.De Stefano" by Enzo Cartapati", *Earthquake Engineering and Engineering Vibration*, 11(2), 291-292
42. Cimellaro, G.P., Reinhorn, A.M, and De Stefano, A., (2012), "Reply to "Discussion 1 on 'Introspection on improper seismic retrofit of Basilica Santa Maria di Collemaggio after 2009 Italian earthquake' by G.P. Cimellaro, A.M. Reinhorn and A.De Stefano" by Vincenzo Ciampi", *Earthquake Engineering and Engineering Vibration*, 11(2), 283-288
43. Shao, X., Reinhorn, A.M., Sivaselvan, M.V., (2011) "Real Time Hybrid Simulation Using Shake Tables and Dynamic Actuators," in *ASCE Journal of Structural Engineering*, 10.1061/(ASCE)ST.1943-541X.0000314 137(7), 748-760
44. Ali S.M., Khan, A.N, Rahman, S. and Reinhorn A.M. (2011), "A Survey of Damages to Bridges in Pakistan after a Major Earthquake of October 8, 2005", in *Earthquake Spectra*, 27(4), 947-970
45. Retamales R, Mosqueda G., Filiatrault A and Reinhorn, A.M. (2011), "Testing Protocol for Experimental Seismic Qualification of Distributed Nonstructural Systems", in *Earthquake Spectra*, 27(3), 835-856
46. Cimellaro, G. P, Reinhorn, A. M. and Bruneau, M. (2011). "Performance-Based Metamodel for Health Care Facilities"**,** in *Int. Journal of Earthquake Engineering and Structural Dynamics*, 40(8), 1197-1217
47. Cimellaro, G.P., Reinhorn, A.M, D'Amboise A. and DeStefano, M., (2011), "Fragility Analysis and Seismic Record Selection", in *ASCE /Journal of Structural Engineering*, 137(3), 379-390
48. Cimellaro, G.P. and Reinhorn, A.M (2011), "Multidimensional Performance Limit State for Hazard Fragility Functions." *ASCE /Journal of Engineering Mechanics*, 137(1), 47-60. DOI 10.1061/(ASCE)EM.1943-7889.0000201, 47-600
49. Maddaloni G., Ryu K.P. and Reinhorn, A.M. (2011), "Shake Table Simulation of Floor Response Spectra" in *Int. Journal of Earthquake Engineering and Structural Dynamics*, 40(6), 591-604 ,
50. Schachter, M., and Reinhorn, A.M., (2011), "Dynamic Analysis of Three Dimensional Frames with Material and Geometric Nonlinearities" in *ASCE/Journal of Structural Engineering*, 137(2), 207-219

51. Cimellaro, G.P., Reinhorn, A.M, and De Stefano, A., (2011), "Introspection on Improper Seismic Retrofit of Basilica Santa Maria Di Collemaggio after 2009 Italian Earthquake", in *Earthquake Engineering and Engineering Vibration*, 10(1), 153-161
52. Roh, H. and Reinhorn A.M., (2010), "Hysteretic Behavior of Precast Segmental Bridge Piers with Superelastic Shape Memory Alloy Bars", in *Engineering Structures*, 32(10), 3394-3403
53. Roh, H. and Reinhorn A.M., (2010), "Modeling and Seismic Analysis of Structures with Rocking Columns", in *Engineering Structures*, 32(8), 2096-2107
54. Roh, H. and Reinhorn A.M., (2010), "Nonlinear Static Analysis of Structures with Rocking Columns", in *ASCE /Journal of Structural Engineering*, 136(5), 532-542
55. Gilani A.S.J, Reinhorn A.M, Glasgow B, Lavan O. and Miyamoto H.K., (2010), "Earthquake Simulator Testing and Seismic Evaluation of Suspended Ceilings", in *ASCE/Journal of Architectural Engineering*, 16(2), 1-11
56. Cimellaro, G. P, Reinhorn, A. M. and Bruneau, M. (2010). "Framework for Analytical Quantification of Disaster Resilience", in Engineering Structures, 32(11), 3639-3649
57. Cimellaro, G. P, Reinhorn, A. M. and Bruneau, M. (2010). "Seismic Resilience of a Hospital System" *Journal of Structure and Infrastructure Engineering*, Special Issue on: "Advances in Vulnerability Assessment of Structures and Infrastructures", 6(1-2), 127-144, First published (*iFirst*) on: 23 July 2009
58. Reinhorn, A.M., Lavan, O, and Cimellaro, G.P (2009), "Design of Controlled Elastic and Inelastic Structures" in *Journal of Earthquake Engineering and Engineering Vibration*-Special issue on "*Advances in Seismic Response Control of Structures*", Special Issue dedicated to Prof. Emeritus T. T. Soong, 8(4), 469-479
59. Sivaselvan, M.V., Yuksel E., Winkelmann K. and Reinhorn, A.M (2009), "Transforming of an Existing Structural Analysis Program to the Object-Oriented Framework", in *Advances in Engineering Software*, Elsevier Applied Science, 40(11), 1131-1139
60. Thevanayagam S, Kanagalingam T, Reinhorn A.M., Tharmendhira R, Dobry R, Pitman M, Abdoun T, Elgamal A., Zeghal M., Ecemis N, Shamy U.E. (2009), "Laminar Box System for 1-g Physical Modeling of Liquefaction and Lateral Spreading", *Geotechnical Testing Journal* , 32(5), 438-449
61. Lavan O., Sivaselvan, M.V. Reinhorn A.M. and Dargush, G.F. (2009), "Progressive collapse analysis through strength degradation and fracture in the Mixed Lagrangian Framework", in *Int. Journal of Earthquake Engineering and Structural Dynamics*, 38(13), 1483–1504
62. Cimellaro G.P., Soong, T.T. and Reinhorn, A.M. (2009), "Integrated Design of Inelastic Controlled Structural Systems", in *Journal of Structural Control and Health Monitoring*, 16(7-8), 689-702
63. Cimellaro, G.P, Lavan, O. and Reinhorn, A.M. (2009), "Design of Passive Systems for Control of Inelastic Structures", in *Int. Journal of Earthquake Engineering and Structural Dynamics*, 38(6), 783-804
64. Cimellaro G.P., Soong, T.T. and Reinhorn, A.M. (2009), "Integrated Design of Controlled Structural Systems", in *ASCE/Journal of Structural Engineering*, 135(7), 853-862
65. Sivaselvan, M. V., Lavan, O., Dargush, G.F., Kurino, H., Hyodo, Y., Fukuda, R., Sato, K., Apostolakis G., and Reinhorn A. M. (2009), "Numerical collapse simulation of large-scale structural systems using an optimization-based algorithm", in Special Issue of *Int. Journal of Earthquake Engineering and Structural Dynamics*, 38(5), 655-677
66. Roh, H. and Reinhorn A.M., (2009), "Analytical Modeling of Rocking Elements", in *Engineering Structures*, 31(5), 1179-1189
67. Mosqueda G., Retamales R, Filiatrault A and Reinhorn, A.M. (2009), "Testing Facility for Experimental Evaluation of Nonstructural Components under Full-scale Floor Motions", in *The Structural Design of Tall Buildings* , 18(4), 387-404
68. Lavan, O, Cimellaro, G.P and Reinhorn, A.M. (2008), "A Non-iterative Optimization Procedure for Seismic Weakening and Damping of Inelastic Structures", in *ASCE/Journal of Structural Engineering*, 134(10), 1638-1648
69. Sivaselvan, M, Reinhorn, A.M., Shao, X., and Weinreber, S. (2008), "Dynamic Force Control with Hydraulic Actuators using Added Compliance and Displacement Compensation", in *Int. Journal of Earthquake Engineering and Structural Dynamics*, 37(15), 1785-1800
70. Madan, A., Reinhorn, A.M., and Mander, J., (2008), "Fiber-Element Model of Post-Tensioned Hollow Block Masonry Shear Walls Under Reversed Cyclic Lateral Loading", in *ASCE/Journal of Structural Engineering*, 134(7), 1101-1114
71. Ahmadizadeh M., Mosqueda G. and Reinhorn A.M. (2008), "Compensation of Actuator Delay and Dynamics for Real-Time Hybrid Structural Simulation", in *Int. Journal of Earthquake Engineering and Structural Dynamics*, 37(1), 21-42

72. Mosqueda, G., Stojadinovic B, Hanley, J, Sivaselvan, M. and Reinhorn A.M., (2008), "Hybrid Seismic Response Simulation on a Geographically Distributed Bridge Model", in *ASCE/Journal of Structural Engineering*, 135(4), 535-543
73. Cimellaro, G.P., Soong, T.T. and Reinhorn, A.M. (2008), "Integrated Design of Smart Structures", in *Advances in Science and Technology*, 56, 127-136, (CD: Embodying Intelligence in Structures and Integrated Systems).
74. Bruneau, M. and Reinhorn, A.M., (2007) "Exploring the Concept of Seismic Resilience for Acute Care Facilities", in *Earthquake Spectra*, 23(1), 41-62
75. Badillo-Almaraz, H., Whittaker A.S. and Reinhorn A.M., (2007), "Seismic Fragility of Suspended Ceiling Systems" in *Earthquake Spectra*, 23(1), 21-40
76. Viti, S., Cimellaro, G. P., and Reinhorn, A. M. (2006), "Retrofit of a Hospital through Strength Reduction and Enhanced Damping." *Smart Structures and Systems*, 2(4), 339-355
77. Sivaselvan M., and Reinhorn, A.M. (2006), "Lagrangian Approach to Structural Collapse Simulation", *ASCE/Journal of Engineering Mechanics*, 132(8), 795-805, DOI:10.1061/(ASCE)0733-9399(2006)132:8(795)
78. Bruneau, M., Chang, S.E., Eguchi R. T., Lee, G.C., O'Rourke, T.D., Reinhorn, A.M., Shinozuka, M., Tierney, K., Wallace, W.A., Von Winterfeldt, D. (2003), "A Framework to Quantitatively Assess and Enhance the Seismic Resilience of Communities" in *Earthquake Spectra*, 19(4), 733-752
79. Ribakov, Y. and Reinhorn, A.M. (2003), "Amplification of Damping in Building Structures", *ASCE/Journal of Structural Engineering*, 129(10), 1422-1427.
80. Sivaselvan M., and Reinhorn, A.M. (2002), "Collapse Analysis of Frame Structures", *ASCE/Journal of Structural Engineering*, 128 (12), 1575-1583.
81. Bruneau, M. Reinhorn, A.M. Whittaker, A. (2002), "Engineering and Organizational Issues Related to the World Trade Center Terrorist Attack - Vol 1 -Overview of Damage to Buildings near Ground Zero" *MCEER Special Report MCEER-02-SP02*.
82. Chu S.Y., Soong T.T., Reinhorn A.M., Helgeson R.J. and Riley M.A. (2002), "Integration issues in Implementation of Structural Control Systems", *Journal of Structural Control*, 9(1), 31-58.
83. Chu, S C, Soong, T.T. and Reinhorn, A.M. (2002), "Real-Time Active Control Verification via Structural Simulator", *Journal of Engineering Structures*, 24 (3), 343-353.
84. Mylonakis G. and Reinhorn, A.M. (2001), "Yielding Oscillator under Triangular Ground Acceleration Pulse", *Journal of Earthquake Engineering*, 5(2), 225-251.
85. Ribakov, Y., Gluck, J and Reinhorn, A.M. (2001), "Active Viscous Damping System for Control of MDOF Structures", *Int. Journal of Earthquake Engineering and Structural Dynamics*, 30(2), 195-212.
86. Sivaselvan M., and Reinhorn, A.M. (2000), "Hysteretic Models for Deteriorating Inelastic Structures", *ASCE/Journal of Engineering Mechanics*, 126(6), 633-640, with discussion (2001) by Wang and Foliente and closure in 127(11)
87. Madan, A., Reinhorn, A. M., Mander, J. B. (2000), "Hysteretic Behavior of Concrete Masonry Shear Walls with Unbonded Reinforcement", *TMS Journal -The Professional Journal of the American Masonry Society*, 18(1), 31-44.
88. Madan, A., Reinhorn, A. M., Mander, J. B. (2000), "Interaction of In-plane Shear and Flexure in Masonry Walls with Unbonded Longitudinal Reinforcement", *TMS Journal -The Professional Journal of the American Masonry Society*, 18(1), 45-64
89. Simeonov, V.K., Sivaselvan M., and Reinhorn, A.M. (2000), "Nonlinear Analysis of Frame Structures by the State-Space Approach", *Computer-Aided Civil and Infrastructure Engineering (Special Volume in honor of Prof. Gear)* 15(2), 76-89.
90. Constantinou, M.C., Reinhorn, A., Tsopelas, P., and Nagarajaiah, S. (1999), "Techniques in nonlinear dynamic analysis of seismic isolated structures," in *Structural Dynamic Systems Computational Techniques and Optimization - Seismic Techniques*, Gordon and Breach International Series in Engineering, Technology and Applied Science, V12, 1-24
91. Mylonakis G., Simeonov, V. Reinhorn, A.M. and Buckle, I.G. (1999), "Implications of Spatial Variation of Ground Motion on Collapse of SR 14/I-5 Southbound and Overhead Bridge in Northridge Earthquake", *in ACI/Special Publication - SP 187-14*, 299-326
92. Cao, H., Reinhorn, A.M., and Soong, T.T. (1998), "Design of an Active Mass Damper for a Tall TV Tower in Nanjing, China," *Engineering Structures*, 20(3), 134-143.
93. Riley, M., Reinhorn, A.M., and Nagarajaiah, S. (1998), "Implementation Issues and Testing of a Hybrid Sliding Isolation System," *Engineering Structures*, 20(3), 144-154.
94. Reinhorn, A. (1997), "Inelastic Analysis Techniques in Seismic Evaluations", in *Seismic Design Methodologies for the Next Generation of Codes* (Krawinkler and Fajfar, eds), Balkema Publishers, 277-287.

95. Madan, A., Reinhorn, A.M., Mander, J., and Valles, R. (1997), "Modeling of Masonry Infill Panels For Structural Analysis," *ASCE/Journal of Structural Engineering*, 123(10), 1295-1302.
96. Bracci, J.M., Kunnath, S.K. and Reinhorn, A.M. (1997), "Simplified Seismic Performance and Retrofit Evaluation of RC Structures," *ASCE/Journal of Structural Engineering*, 123(1), 3-10.
97. Gluck, N., Reinhorn, A.M., Gluck, J., and Levy, R. (1996), "Design of Supplemental Dampers for Control of Structures," *ASCE/Journal of Structural Engineering*, 122(12), 1394-1399.
98. Reinhorn, A.M. (1996), "Supplemental Damping Devices for Seismic Retrofit of Frame Structures in US" *Rebuilding Maintenance & Management* - Special Edition, 18(2)(104), 40-52 (in Japanese).
99. Madan, A., Reinhorn, A.M., and Mander, J. (1996), "Flexural Capacity of Reinforced Masonry Walls with Unbonded Reinforcement" *TMS Journal -The Professional Journal of the American Masonry Society*, 14(1), 87-98.
100. Yang, J.N., Wu, J.C., Reinhorn, A.M., Riley, M.A., Schmitendorf, W.E., and Jabbari, F. (1996), "Experimental Verification of H_{oo} and Sliding Mode Control for Seismic-Excited Buildings," *ASCE/Journal of Structural Engineering*, 122(1), 69-75.
101. Yang, J.N., Wu, J.C., Reinhorn, A.M., and Riley, M.A., (1996), "Control of Sliding-Isolated Building Using Sliding Mode Control," *ASCE/Journal of Structural Engineering*, 121(1), 83-01.
102. Subramaniam, R.S., Reinhorn, A.M., Nagarajaiah, S., and Riley, M.A. (1996), "Hybrid Control of Structures Using Fuzzy Logic," *Microcomputers in Civil Engineering: Special Issue on Fuzzy Logic In Civil Engineering*, Blackwell Publishers, Oxford, UK, 11(1), 1-18.
103. Naeim F., Dijulio R.M. Jr., Benuska K.V. , Reinhorn A.M. and Li, C. (1995), "Seismic Performance Analysis of a Multistory Steel Moment Frame Building Damaged During the 1994 Northridge Earthquake", *Journal of the Structural Design of Tall Buildings*, Vol. 4, 263-312 (Best Paper Award).
104. Bracci, J.M., Reinhorn, A.M., and Mander, J.B. (1995), "Seismic Retrofit of Reinforced Concrete Buildings Designed for Gravity Loads: Performance of Structural Model," *ACI/Structural Journal*, 92(6), 601-613.
105. Bracci, J.M., Reinhorn, A.M., and Mander, J.B. (1995), "Seismic Resistance of Reinforced Concrete Frame Structures Designed for Gravity Loads: Performance of Structural System," *ACI/Structural Journal*, 92(5), 597-609.
106. Kunnath, S.K. and Reinhorn, A.M. (1995), "Efficient Modeling Scheme for Transient Analysis of Inelastic RC Structures," *Microcomputers in Civil Engineering, International Journal of Computer-Aided Civil and Infrastructure Engineering*, Vol. 10(2), 97-110.
107. Reichman, Y., and Reinhorn, A.M. (1995), "Extending Seismic Life Span of Bridges," *Structural Engineering Review - Progress in Bridge Engineering*, Perganon Press, 7(3), 207-218.
108. Kunnath, S.K., Hoffmann, G., Reinhorn, A.M., and Mander, J.B. (1995), "Gravity Load Designed Reinforced Concrete Buildings Part II: Evaluation of Detailing Enhancements," *ACI/Structural Journal*, 92(4), 470-478.
109. Kunnath, S.K., Hoffmann, G., Reinhorn, A.M., and Mander, J.B. (1995), "Gravity Load Designed Reinforced Concrete Buildings Part I: Seismic Evaluation of Existing Construction," *ACI/Structural Journal*, 92(3), 343-354.
110. Soong, T.T, Reinhorn, A.M., Aizawa, S. and Higashino, M. (1994), "Recent Structural Applications of Active Control Technology," *Journal of Structural Control*, 1(N1-2), 5-21.
111. Aycardi, L., Mander, J.B. and Reinhorn, A.M. (1994), "Seismic Resistance of Reinforced Concrete Frame Structures Designed Only For Gravity Loads: "Experimental Performance of Subassemblies," *ACI/Structural Journal*, 91(5), 552-563, discussion July. 1995, 502-504.
112. Lopez, Almansa, F., Andrade, J., Rodellar, J. and Reinhorn, A.M. (1994), "Modal Predictive Control of Structures - Part (II): Implementation," *ASCE/Journal of Engineering Mechanics*, 120(8), 1761-1772.
113. Lopez, Almansa, F., Andrade, J., Rodellar, J. and Reinhorn, A.M. (1994), "Modal Predictive Control of Structures - Part (I): Formulation," *ASCE/Journal of Engineering Mechanics*, 120(8), 1743-1760.
114. Mander, J.B., Bracci, J.M., Reinhorn, A.M. (1994), "Seismic Retrofitting of Reinforced Concrete Frames Using Masonry," *Proceedings of the British Masonry Society*, 6, 302-308.
115. Tsopelas, P., Nagarajaiah, S., Constantinou, M.C., and Reinhorn, A.M. (1994), "Nonlinear Dynamic Analysis of Multiple Building Base Isolated Structures," *J. of Computers and Structures*, 50(1), 47-58.
116. Soong, T.T. and Reinhorn, A.M. (1993), "An Overview of Active and Hybrid Structural Control Research in the U.S.," *The Structural Design of Tall Buildings*, 2(1), 193-209.
117. Reinhorn, A.M. and Soong, T.T. (1993), "Tech Topics: Bracing with Muscle," *Progressive Architecture*, 3(3), 38-40.
118. Reinhorn, A.M. and Soong, T.T. (1993), "Active Bracing Systems," *Modern Steel Construction*, 33(5), 28-33.
119. Nagarajaiah, S., Riley, M. A. and Reinhorn, A. M. (1993), "Control of Sliding Isolated Bridge with Absolute Acceleration Feedback." *ASCE/J. of Engineering Mechanics*, 119(11), 2317-2332.

120. Nagarajaiah, S., Reinhorn, A.M., and Constantinou, M.C. (1993), "Torsion in Base Isolated Structures with Elastomeric Systems," *ASCE/Journal of Structural Engineering*, 119(10), 2932-2951.
121. Reinhorn, A.M., Soong, T.T., Riley, M.A., Lin, R.C., Aizawa, S., Higashino, M. (1993), "Full Scale Implementation of Active Control Part II: Installation and Performance", *ASCE/Journal of Structural Engineering*, 119 (6), 1935-1960.
122. Demetriades, G.F., Constantinou, M.C., and Reinhorn, A.M. (1993), "Study of Wire Rope Systems for Seismic Protection of Equipment in Buildings," *Engineering Structures*, 15(5), 321-334.
123. Nagarajaiah, S., Reinhorn, A.M., and Constantinou, M.C. (1993), "Torsional Coupling in Base Isolated tructures: Sliding Isolated Systems," *ASCE/Journal of Structural Engineering*, 119(1), 130-149.
124. Mokha, A., Constantinou, M.C., and Reinhorn, A.M. (1993), "Verification of Friction Model of Teflon Bearings under Triaxial Load," *ASCE/Journal of Structural Engineering*, 119(1), 240-261.
125. Valles, R., Kunnath, S.K. and Reinhorn, A.M. (1993), "Simplified Drift Evaluation of Wall-Frame Structures", *Computer-Aided Civil and Infrastruct. Engineering*, 8(3) 233–246 doi: 10.1111/j.1467-8667.1993.tb00208.x
126. Lobo, R.F., Bracci, J.M., Shen, K., Reinhorn, A.M., and Soong, T.T. (1993), "Inelastic Response of R/C Structures with Viscoelastic Braces", *Earthquake Spectra*, 9(3), 419-446.
127. Constantinou, M.C., Kartoum, A., and Reinhorn, A.M. (1992), "Sliding Isolation System for Bridges: Analytical Study," *Earthquake Spectra*, 8, (3), 345-372.
128. Constantinou, M.C., Kartoum, A., Reinhorn, A.M., and Bradford, P. (1992), "Sliding Isolation System for Bridges: Experimental Study," *Earthquake Spectra*, 8(3), 321-344.
129. Juhn, G., Manolis, G.D., Constantinou, M.C., and Reinhorn, A.M. (1992), "Experimental Study of Secondary Systems in Base Isolated Structures," *ASCE/Journal of Structural Engineering*, 118(8), 2204-2221.
130. Wang, Y.P., Reinhorn, A.M., and Soong, T.T. (1992), "Development of Design Spectra for Actively Controlled Wall Frame Buildings", *ASCE/Journal of Engineering Mechanics*, 118(6), 1201-1220.
131. Nagarajaiah, S., Reinhorn, A.M., and Constantinou, M.C. (1992), "Experimental Study of Sliding Isolated Structures with Uplift Restraint", *ASCE/ Journal of Structural Engineering*, 118(6), 1666-1682.
132. Soong, T.T., Reinhorn, A.M., Wang, Y.P. and Lin, R.C. (1991), "Full-Scale Implementation of Active Control: I. System Design and Simulation Results", *ASCE/Journal of Structural Engineering*, 117(11), 3516-3536.
133. Kunnath, S.K., Reinhorn, A.M. and Abel, J.F. (1991), "A Computational Tool for Evaluation of Seismic Performance of R/C Buildings," *Computers and Structures*. 41(1), 157-171.
134. Panahshahi, N., Reinhorn, A.M., Kunnath, S.K., Le-Wu, L., Huang, T., and Yu, K. (1991), "Seismic Response of a 1:6 Reinforced Concrete Scale-Model Structure with Flexible Floor Diaphragms", *ACI Structural Journal*, 88 (3) 315-324.
135. Constantinou, M.C., Reinhorn, A.M., Mokha, A.S., and Watson, R. (1991), "Displacement Control Device for Base-Isolated Bridges", *Earthquake Spectra*, 7(2), 179-200.
136. Nagarajaiah, S., Reinhorn, A.M., and Constantinou, M.C. (1991), "Nonlinear Dynamic Analysis of Three-Dimensional Base Isolated Structures", *ASCE/Journal of Structural Engineering*, 117(7), 2035-2054.
137. Kunnath, S.K., Panahshahi, N., and Reinhorn, A.M. (1991), "Seismic Response of RC Buildings with Inelastic Floor Diaphragms", *ASCE/Journal of Structural Engineering*, 117(4), 1218-1237.
138. Constantinou, M.C., Mokha, A. And Reinhorn, A.M. (1991), "Study of a Sliding Bearing and Helical Steel Spring Isolation System", *ASCE/Journal of Structural Engineering*, 117(4), 1257-1275.
139. Mokha, A., Constantinou, M.C., Reinhorn, A.M., and Zayas, V. (1991), "Experimental Study on Friction Pendulum Isolation System", *ASCE/Journal of Structural Engineering*, 117(4), 1201-1217.
140. Mokha, A., Constantinou, M.C. and Reinhorn, A.M. (1990), "Further Results on the Frictional Properties of Teflon Bearings", *ASCE/Journal of Structural Engineering*, 117(2), 622-627.
141. Kunnath, S.K. and Reinhorn, A.M., (1990), "Model for Inelastic Biaxial Bending Interaction of R/C Beam-Columns", *ACI/Structural Journal*, 86(3), 284-291.
142. Kunnath, S.K., Reinhorn, A.M. and Park, Y.J. (1990), "Analytical Modeling of Inelastic Seismic Response of R/C Structures", *ASCE/Journal of Structural Engineering*, 116(4), 996-1017.
143. Park, S.P., Lai, M.L., Lin, C.C., Naibu, H., Soom, A., Reinhorn, A.M., Lee, Y.H., Demijanenko, V., Benenson, D.M., Soong, T.T. and Wright, S.E. (1990), "Measurements for Noninvasive Mechanical Diagnostics of Power Circuit Breakers", *Electric Power Systems Research*, 19(1), 1-10.
144. Constantinou, M.C., Mokha, A. and Reinhorn, A.M. (1990), "Experi in Base Isolation, Part II: Modeling." *ASCE/Journal of Structural Engineering*, 116(2), 455-474.
145. Mokha, A., Constantinou, M.C. and Reinhorn, A.M. (1990), "Teflon Bearings in Base Isolation, Part I: Testing", *ASCE/Journal of Structural Engineering*, 116(2), 438-454.
146. Caspe, M.S. and Reinhorn, A.M. (1989), "Bringing the House Down", *The Military Engineer - Journal of the Society of American Military Engineers*, 81(531), 16-20.

147. Seidel, M.I., Reinhorn, A.M., and Park, Y.J. (1989), "Seismic Damageability Assessment of R/C Buildings in Eastern U.S.", *ASCE/Journal of Structural Engineering*, 115(9), 2184-2203.
148. Chung, L.L., Lin, R.C., Soong, T.T., and Reinhorn, A. (1989), "Experimental Study of Active Control for MDOF, Seismic Structures", *ASCE/Journal of Engineering Mechanics Division*, 115(8), 1609-1627
149. Kunnath, S.K. and Reinhorn, A.M. (1989), "Seismic Evaluation of R/C Frame Wall Buildings", *ACI/Concrete International, Design & Construction*, Special Issue, 11(8), 57-61.
150. Rodellar, J., Chung, L.L., Soong, T.T. and Reinhorn, A. (1989), "Experimental Digital Control of Structures", *ASCE/Journal of Engineering Mechanics Division*, 115(6), 1245-1261.
151. Reinhorn, A.M. and Manolis, G.D. (1989), "Recent Advances in Structural Control", *Shock and Vibration Digest*, Featured Article, 21(1), 3-8.
152. Lai, M.L., Park, S.Y., Lin, C.C., Naidu, A., Soom, A., Reinhorn, A., Lee, Y.H., Soong, T.T., Demjanenko, V., Benenson, D., and Wright, S.E. (1988), "Mechanical Failure Detection of Circuit Breakers", *IEEE/Transactions of Power Engineering Society*, 3(4), 1724-1731.
153. Chung, L.L., Reinhorn, A., and Soong, T.T. (1988), "Experiments on Active Control of Seismic Structures", *ASCE/Journal of Engineering Mechanics Division*, 114(2), 241-256.
154. Caspe, M.S. and Reinhorn, A. (1987), "The Blast Barrier: A Blast Protection System for Building and Perimeter Security", *The Military Engineer - Journal of the Society of American Military Engineers*, 79, (513), 100-105.
155. Reinhorn, A., Manolis, G.D. and Wen, C.Y. (1987), "Active Control of Inelastic Structures", *ASCE/Journal of Engineering Mechanics Division*, 113 (3), 315-333.
156. Reinhorn, A., and Prawel S.P. (1986), "Ferrocement in a Large Shaking Table", *ASCE/Journal of Structural Engineering*, 112(2), 401-416.
157. Reinhorn, A. and Manolis, G.D. (1985), "Current State of Knowledge on Structural Control", *Shock and Vibrations Digest*, 17(10), 7-16
158. Reinhorn A., Prawel, S.P., and Jia, Z.H. (1985), "Experimental Study of Ferrocement as a Seismic Retrofit Material for Masonry Walls", *Journal of Ferrocement*, 15(3), 247-260
159. Prucz, Z., Soong, T.T. and Reinhorn, A. (1985), "An Analysis for Pulse Control for Simple Mechanical Systems", *ASME/Journal of Dynamic Systems Measurements and Control*, 107(2), 123-131
160. Prawel, S.P. and Reinhorn, A. (1983), "Building Construction: A Competitive Modern Building Material", - *Concrete International - Design and Construction*, Special Issue, 5, (11), 17-21
161. Prawel, S.P. and Reinhorn, A. (1982), "Properties in Flexure of Under Reinforced Ferrocement Panels in Two-Way bending", *Journal of Ferrocement*, 12(3), 237-250
162. Tatsa, E.Z., Prawel, S.P. and Reinhorn, A. (1981), "Long Span Composite Roof Systems of Ferrocement and Frame Components", *Journal of Ferrocement*, 11(1), 55-66
163. Reinhorn, A., "Discussion on Paper by K.M. Dempsey and H.M. Irvine" (1980), *Int. Journal of Earthquake Engineering and Structural Dynamics*, 8 (1), 75-77
164. Gluck, J., Reinhorn, A., and Rutenberg, A. (1979), "Dynamic Torsional Coupling in Tall Buildings Structures", *Proc. of Inst. of Civ. Engrg.*, 67(2), 411-424, DOI:10.1680/iicep.1979.2465
165. Rutenberg, A., Gluck, J., and Reinhorn, A. (1978), "On the Dynamic Properties of Asymmetric Wall-Frame Structures", *Int. Journal of Earthquake Engineering and Structural Dynamics*, 6(3), 317-320
166. Reinhorn, A., Rutenberg, A., and Gluck, J. (1977), "Dynamic Torsional Coupling in Asymmetric Building Structures", *Building & Environment (formerly Building Science)*, 12, (4), 251-261

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REVIEWED PAPERS IN EDITED BOOKS

167. Soroushian, S., Rahmanishamsi, E., Ryu, K.P. Maragakis, E.M. and Reinhorn A.M.(2014), "A Comparative Study of Subsystem and System Level Experiments of Suspension Ceiling Systems", *Frontiers of Earthquake Engineering* Tenth U.S. National Conference on Earthquake Engineering, July 21-25, 2014, Anchorage, Alaska Paper #001206.
168. Ryu KP and Reinhorn A.M.(2014), "Simplified Analytical Modeling of a Suspended Ceiling System", *Frontiers of Earthquake Engineering* Tenth U.S. National Conference on Earthquake Engineering, July 21-25, 2014, Anchorage, Alaska Paper #001206.
169. Pasala, D. T. R., Sarlis, A. A. S., Nagarajaiah, S., Reinhorn, A. M., Constantinou, M. C., Taylor, D.,(2012), "Negative Stiffness Device for Seismic Protection of Multistory Structures," *2012 Structures Congress-SEI-ASCE* Structures Congress Ill, March 29-31.
170. Attary, N., Symans, M.D., Nagarajaiah, S., Reinhorn, A.M., Constantinou, M.C., Taylor, D., Sarlis, A.A. and Pasala, D.T.R. (2012). "Application of Negative Stiffness Devices for Seismic Protection of Bridge Structures," *2012 Structures Congress-SEI-ASCE* Structures Congress, Chicago, IL, March 29-31

171. Reinhorn, A. M., Ray, T., Pasala, D. T. R., Sarlis, A. A. S., Nagarajaiah, S. and Constantinou, M. C., (2012), "Control of inelastic structures by weakening and damping", *2012 Structures Congress-SEI-ASCE, 20th Analysis and Computations Specialty Track,* Featured Lecture, March 29-31. pp. 37-48, doi: 10.1061/9780784412374.004
172. Reinhorn A.M. and Schachter M., (2012) "Experimental and analytical modelling of seismic behaviour of braced framed structures with "zipper" mechanism" in *Behavior of Steel Structures in Seismic Areas - STESSA 2012* (Mazzolani & Herrera (eds)), 2012 Taylor & Francis Group, London, ISBN 978-0-415-62105-2, 105-110
173. Sarlis, A. A. S., Pasala, D. T. R., Constantinou, M. C., Reinhorn, Nagarajaiah, S., A. M., Taylor, D., (2011), "Negative stiffness device for seismic protection of structures – an analytical and experimental study", Proceedings of COMPDYN 2011, *3rd ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering*, M. Papadrakakis, M. Fragiadakis, V. Plevris (eds.), Corfu, Greece, 25–28 May 2011, 4091-4221
174. Renschler C.S., Reinhorn A M. , Arendt L. A., Cimellaro G. P., (2011), " The P.E.O.P.L.E.S. Resilience Framework: A Conceptual Approach to Quantify Community Resilience", Proceedings of COMPDYN 2011, 3rd ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering M. Papadrakakis, M. Fragiadakis, V. Plevris (eds.), Corfu, Greece, 25–28 May 2011, 2014-2023
175. Arcidiacono, V., Cimellaro G. P., Reinhorn A M., (2011), "Software for Measuring Disaster CommunityResilience According to the P.E.O.P.L.E.S. Methodology", Proceedings of COMPDYN 2011, 3rd ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering M. Papadrakakis, M. Fragiadakis, V. Plevris (eds.), Corfu, Greece, 25–28 May 2011, 1969-1986
176. Pasala, D. T. R., Sarlis, A. A. S., Nagarajaiah, S., Reinhorn, A. M., Constantinou, M. C., Taylor, D., (2011), "Adaptive Negative Stiffness: A new structural modification approach for seismic protection" *2011 ASCE/SEI Structures Congress*, April 14-16, 2011, Las Vegas NV, 2892-2904
177. Cimellaro G. P., Renschler C.S., Frazier A., Arendt L. A., Reinhorn A M. and Bruneau, M. (2011) , "The State of Art of Community Resilience of Physical Infrastructures", *2011 ASCE/SEI Structures Congress*, April 14-16, 2011, Las Vegas NV, 2021-2032
178. Reinhorn, A.M., Cimellaro, G.P., and Soong, (2008), "Integrated Design of Smart Structures", in *Advances in Science and Technology*, Vol. 56, 127-136 (CD: Emboding Intelligence in Structures and Integrated Systems).
179. Reinhorn, A.M., Sivaselvan M.S., Dargush G.F., Lavan O, (2007), "Mixed Lagrangian Formulation in Analysis of Collapse of Structures", in *ECCOMAS2007 Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering*, M. Papadrakakis, D.C. Charmpis, N.D. Lagaros, Y. Tsompanakis (eds.) 13–16 June 2007, Rethymno, Crete, Greece, paper #1507 (keynote lecture)
180. Lavan O, Dargush G.F., Reinhorn, A.M., and Sivaselvan M.S., (2007), "Time Integrated Mixed Lagrangian Formulation (Time) for Impulsive Loadings and Impacts", in *ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering*, M. Papadrakakis, D.C. Charmpis, N.D. Lagaros, Y. Tsompanakis (eds.)13–16 June 2007, Rethymno, Crete, Greece, paper #1509
181. Cimellaro, G.P. and Reinhorn, A.M., (2007), "Selection of Seismic Records for Fragility Analysis of Nonlinear Systems with Nonstructural Components", in *ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering*, M. Papadrakakis, D.C. Charmpis, N.D. Lagaros, Y. Tsompanakis (eds.)13–16 June 2007, Rethymno, Crete, Greece, paper #1473
182. Cimellaro, G.P. Lavan, O., and Reinhorn, A.M., (2007), "Optimal Weakening and Damping of Inelastic Structures for Seismic Loadings", in *ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering*, M. Papadrakakis, D.C. Charmpis, N.D. Lagaros, Y. Tsompanakis (eds.)13–16 June 2007, Rethymno, Crete, Greece, paper #14732
183. Schachter, M and Reinhorn, A.M., (2007), "Corotational Formulation for Buckling and Instability of 3D Frame Structures", in *ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering*, M. Papadrakakis, D.C. Charmpis, N.D. Lagaros, Y. Tsompanakis (Eds.)13–16 June 2007, Rethymno, Crete, Greece, Paper #1330
184. Mosqueda G, Retamales R, Filiatrault A.R. and Reinhorn, A. M. (2006), "Experimental Seismic Fragility of Nonstructural Components using Full-scale Floor Excitations", *in 17th Analysis and Computation Specialty Conference* - Charney, F., Grieson, D., and Hoit M (eds) / *2006 ASCE Structures Congress*, May 18-21, 2006, St-Louis, MS
185. Reinhorn A.M., Shao, X, Sivaselvan M, Pitman, M. and Weinreber, S. (2006), "Real Time Dynamic Hybrid Testing Using Shake Tables and Force-Based Substructuring", *in 17th Analysis and Computation Specialty Conference* - Charney, F., Grierson, D., and Hoit M. (eds) / *2006 ASCE Structures Congress*, May 18-21, 2006, St-Louis, MS
186. Leon Roberto, Yang Chuang-Sheng, Desroches Reginald, Reinhorn Andrei, Schachter Macarena, Stojadinovic Bozidar, Yang Tony, Shing Benson and Wei Zhong,(2005) "Results of Early Collaborative Research on

Behavior of Braced Steel Frames with Innovative Bracing Schemes (Zipper Frames)", in *Advances in Experimental Structural Engineering*, - Itoh and Aoki (eds.), AESE 2005 July, Nagoya, Japan, 525-532

187. Reinhorn A.M., Gluck, N., Gluck, J. and Levy, R. (2000), "Optimal Design of Supplemental Dampers for Control of Structures", in *Structural Control for Civil and Infrastructure Engineering* (Casciati and Magonette Eds.) – Proc. of Third International Workshop on Structural Control, Paris 473-486.
188. Chu, S. Y., Soong, T.T. and Reinhorn A.M. (2000), "Some Implementation Issues in Structural Control", in *Structural Control for Civil and Infrastructure Engineering* (Casciati and Magonette Eds.) – Proc. of Third International Workshop on Structural Control, Paris, 93-106
189. Naeim, F. Skliros, K. and Reinhorn A.M. (1999), "Effects of Hysteretic Deterioration Characteristics on Seismic Response of Moment Resisting Steel Structures", SAC/BD-99/18, SAC Joint Venture.
190. Nagarajaiah, S., Reinhorn, A.M. and Constantinou, M. C. (1999), "Dynamic Analysis of Base Isolated Structures", *ASCE Monograph on Seismic Isolation*.
191. Mylonakis, G. and Reinhorn, A.M. (1997), "Inelastic Seismic Response Near fault: An Analytical Solution", in *Behaviour of Steel Structures in Seismic Areas* (Mazzolani and Akyiama, eds), Edizioni 10/97, Salerno Italy, 82-89.
192. Bracci, J.M. and Reinhorn, A.M. (1996), "Shaking Table Testing of 1:3 Scale R/C Frame Model." In *Structural Dynamics - Proceedings of Third European Conference in Structural Dynamics* (Augusti, Borri, & Spinelli, eds.), Balkema/Rotterdam/Brookfield, 893-897.
193. Reinhorn, A.M., Subramaniam, R., and Riley, M.A. (1996), "Fuzzy Logic Based Control for Sliding Structures", in Analysis and Computations [Chen S. Ed.], ASCE, NY, xx-xx.
194. Reinhorn, A.M., Constantinou, M.C., and Li, C. (1995), "Use of Supplemental Damping Devices for Seismic Strengthening of Lightly Reinforced Concrete Frames," *Proceedings, Workshop on the Seismic Rehabilitation of Lightly Reinforced Concrete Frames*, (Geraldine S. Cheok, Editor), National Institute of Standards and Technology.
195. Constantinou, M.C. and Reinhorn, A.M. (1995), "Seismic Isolation and Control" in *Structural Dynamic Systems Computational Techniques and Optimization*, Gordon and Breach International Series in Engineering Technology and Applied Science (Cornelius Leondes Ed.) , Vol 12, 1-24
196. Reinhorn, A.M., and Li, C. (1995), "Retrofit of Structures Using Damping Devices," in Restructuring: America and Beyond [Masauel Sanayei (editor)], ASCE, NY, Vol. 1, 760-763.
197. Riley, M.A., Aktan, H.M., Nagarajaiah, S., and Reinhorn, A.M. (1994), "Hybrid Structural Control of Seismic Safety," *Proceedings of the 11th Analysis and Computation Conference at the ASCE/Structures Congress*, 1994 (F.Y.Chen Ed), Atlanta, May 1994, 307-316.
198. Riley, M.A., Subramaniam, R., Nagarajaiah, S., and Reinhorn, A.M. (1993), "Hybrid Control System for Sliding Base Isolated Structures," *ATC-17-1 Seminar on Seismic Isolation Passive Energy Dissipation, and Active Control* [C. Rojhan Ed.], San Francisco, California, March 11-12, 1993. Vol. 2, 799-810.
199. Nagarajaiah, S., Reinhorn, A.M., and Constantinou, M. (1993), "Torsion in Base Isolated Structures," *ATC-17-1 Seminar on Seismic Isolation Passive Energy Dissipation, and Active Control* [C. Rojhan Ed.], San Francisco, California, March 11-12, 1993, Vol. 1, 331-338.
200. Nagarajaiah, S., Tsopelas, T., Li, C., Reinhorn, A.M., and Constantinou, M. (1993), "3D-Basis: A Class of Computer Programs for Nonlinear Dynamic Analysis of Base Isolated Structures," *ATC-17-1 Seminar on Seismic Isolation Passive Energy Dissipation, and Active Control* [C. Rojhan Ed.], San Francisco, California, March 11-12, 1993, Vol. 1, 173-184.
201. Bracci, J.M., Lobo, R.F., Reinhorn, A.M. (1993), "Seismic Retrofit of Reinforced Concrete Structures Using Damping Devices," *ATC-17-1 Seminar on Seismic Isolation Passive Energy Dissipation, and Active Control* [C. Rojhan Ed.], San Francisco, California, March 11-12, 1993, Vol. 2, 569-580.
202. Reinhorn, A.M., Subramaniam, R.S., Nagarajaiah, S., and Riley, M.A. (1993), "Study of Hybrid Control of Structural and Nonstructural Systems," in Proc. of Int. Workshop on Structural Control and Intelligent Systems, [Husner, G.W. & Masri, S.F. (Eds.)], Honolulu, Hawaii, August 1993, 405-416.
203. Reinhorn, A.M., Nagarajaiah, S., Riley, M.A., and Subramaniam, R.S. (1993), "Hybrid Control of Sliding Isolated Structures," in *Structural Engineering and Natural Hazard Mitigation*, [Ang AHS & Villaverde, (Eds.)], Vol. 1, ASCE, NY, 766-791.
204. Soong, T.T. and Reinhorn, A.M. (1993), "Observed Response of Actively Controlled Structures," in *Structural Engineering and Natural Hazards Mitigation*, [Ang AHS and Villaverde (Eds.)], ASCE, NY, Vol. 1, 187-192.
205. Reinhorn, A.M., Kunnath, S.K., and Mander, J.B. (1992), "Seismic Design of Structures for Damage Control," in Nonlinear Seismic Analysis and Design of Reinforced Concrete Buildings, [Fajfar and Krawinkler, (Eds.)], Elsevier Applied Science Publishers, U.K., 63-76.
206. Soong, T.T., Reinhorn, A.M. (1992), "Full-Scale Implementation of Active Structural Control", in Intelligent Structures 2, [Y.K. Wen (Ed.)], Elsevier, London and NY, 252-263.

207. Riley, M.A., Reinhorn, A.M**.,** and Constantinou, M.C. (1991), "Active Control of Absolute Motion in Study Systems," in Dynamic and Control of Large Structures (L. Meirovitch, Editor), Virginia Polytechnic Institute Publication, Blacksburg, Virginia, 243-252.
208. Kunnath, S.K., Reinhorn, A.M., Abel, J.F. and Young, J. Park (1990), "A Macromodel Approach To Practical Analysis of R/C Buildings Under Seismic Excitation", in *Computer Aided Analysis and Design of Concrete Structures*, N. Bicanic and H. Mang (Eds.), Pineridge Press, Swansea U.K. Vol. 2, 1155-1167.
209. Reinhorn, A.M., Mander J.B. and Kunnath, S.K. (1990), "Damage Based Design and Evaluation of Structural Systems - Future Approach", in Developments in Seismic Design of Buildings in Israel, A. Scarlat (Ed.), Israeli , Tel Aviv Israel Association of Civil Engineers / Israeli Association of Earthquake Engineering, 3-12.
210. Reinhorn, A.M., Mander, J.B., Bracci, J., and Kunnath, S.K. (1989). "Simulation of Seismic Damage of RC Buildings in Eastern U.S.," *Structural Safety & Reliability (ICOSSAR)*, A.H.S. Ang, M. Shinozuka and G.I. Schuller (Eds.), ASCE, New York, August 1989, 407-414.
211. Constantinou, M.C., Reinhorn, A.M. (1989), "Response of Base Isolated Structure," *Structural Safety & Reliability (ICOSSAR)*, A.H.S. Ang, M. Shinozuka and G.I. Schuller (Eds.), ASCE, New York, August 1989, 485-492.
212. Wang, Y.P. and Reinhorn, A.M. (1989), "Motion Control of Sliding Isolated Structures" in *Seismic Shock and Vibration Isolation - 1989*, H. Chung and T. Fujita (Eds.), ASME, PVP. 181, New York, 89-94.
213. Mokha, A., Constantinou, M.C., and Reinhorn, A.M. (1989), "Sliding Isolated Structures: Experiments and Mathematical Modeling," in *Seismic Shock and Vibration Isolation - 1989*, H. Chung and T. Fujita (Eds.), ASME, PVP- 181, New York, 101-106.
214. Reinhorn, A.M., Kunnath, S.K., Bracci, J. and Mander, J. (1989), "Normalized Damage Index for Evaluation of Buildings", in *Seismic Engineering: Research and Practice*, C.A. Kircher and A.K. Chopra (Eds.), ASCE, New York, 507-516.
215. Reinhorn, A., Soong, T.T., Fukao, Y., Lin, R.C., Wang, Y.P. and Nakai, M. (1989), "Experiments on Active Structural Control Under Seismic Loads", in *Computer Utilization in Structural Engineering*, J.K. Nelson Jr. (Ed.), ASCE, New York, 101-110.
216. Dicorso, P., Harper, W., Reinhorn, A. and Dickerson, J. (1989), "Structures with Semi-Rigid Bolted Connections", in *Steel Structures*, ASCE, Structures Congress, SF, CA New York, 529-538.
217. Constantinou, M.C., Reinhorn, A.M. and Watson, R., B. (1988), "Teflon Bearings in Aseismic Base Isolations: Experimental Studies", in Seismic Shock and Vibration Isolation-1988, H. Chung and N. Mostagel (Eds.) ASME, New York, PVP 147, 9-13.
218. Rodellar, J., Chung, L.L. Soong, T.T., Reinhorn, A**.** (1987), "Experimental Digital Predictive Control of Structures", *Vibration Control and Active Vibration Suppression*, D. Inman and J. Simmons (Eds.), ASME, New York, DE-4, 115-120.
219. Lin, R.C. Soong, T.T. and Reinhorn, A. (1987), "Active Stochastic Control of Seismic Structures", in Stochastic Approaches in Earthquake Engineering, Y.K.Lin and Minai (Eds.), Springer-Verlag, New York, 157-173.
220. Reinhorn, A., Yeh, L.J. and Snyder, J. (1987), "Prestressed Concrete Beam Design", in *Computer Applications in Structural Engineering*, D. R. Jenkins (Ed.) ASCE, New York, 383-394.
221. Reinhorn, A., Soong, T.T. and Wen, C.Y. (1987), "Base Isolated Structures with Active Control", *Seismic Engineering: Recent Advances in Design Analysis, Testing and Qualification Methods*, T.H. Lin and A. Marr (Eds.), ASME, New York, PVP 127, 413-419.
222. Soong, T.T., Reinhorn, A., and Yang, J.N. (1987), "A Standardized Model for Structural Control Experiments and Some Experimental Results", *Active Control*, HHE Leipholz (Ed.) Martins-Nijhoff, 669-693.
223. Reinhorn, A, Manolis, G.D., and Wen, C.Y. (1987), "An On-Line Control Algorithm for Inelastic Structures", *Active Control*, HHE Leipholz (Ed.), Martins-Nijhoff, 564-579.
224. Caspe, M.S., and Reinhorn, A**.** (1986), "The Earthquake Barrier - A Solution for Adding Ductility to Otherwise Brittle Buildings", *Base Isolation and Passive Energy Dissipation*, C. Rojahn (Ed.), Applied Technology Council, ATC-17, 331 - 362.
225. Chung, L.L., Reinhorn, A., and Soong, T.T. (1986), "An Experimental Study of Active Structures Control", in Dynamic Response of Structures, G.C. Hart and R.B. Nelson (Eds.) ASCE, New York, 795-802.

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SECTIONS IN CODES AND STANDARDS

226. NEHRP2000 (1999) - Update Design Provisions and Commentaries for Building Structures, BSSC/FEMA, 1999 - TS2

227. ACI Committee 549,(1988) "Guide to Design, Construction, and Repair of Ferrocement", (ACI 549.1R-88 ACI Standard) - Author of Section, "Appendix D - Surface Treatment for Ferrocement Structures Attacked by Commonly used Chemicals, 549-1R-27.

Go to List of Contents

COMPUTER SOFTWARE - INTERNATIONAL DISTRIBUTION

228. IDARC2D Vers. 1.0 - 7.0 (1997-2009) "Inelastic Damage Analysis of Reinforced Concrete Frame - Shear Wall Structures," (by: A.M. Reinhorn, Y.J.Park, S.K. Kunnath, R Valles, A. Madan, R. Lobo, M. Sivaselvan, H. Roh); Published on MCEER Users Networks & NISEE/EERC - University of California at Berkeley, June 1988; Last Release: IDARC2D-Ver. 7.0 (2009); IDARC- BRIDGE / IDARC 3D - In Progress.; International Users Group currently active; : http://civil.eng.buffalo.edu/idarc
229. 3D-BASIS, 3D-BASIS-TABS, 3D-BASIS M, 3D-BASIS ME (1991-2005) - "A Three-dimensional Analysis for Base Isolated Structures," February 1991 (by A.M. Reinhorn, S. Nagarajaiah, M.C. Constantinou and T. Tsopelas) - see also Reports NCEER-89-0019, NCEER-91-0005, NCEER-91-0014, NCEER-93-0011, NCEER-94-0010 and NCEER-94-0018 Last release: (2005); Published on MCEER Users Networks: http://civil.eng.buffalo.edu/3dbasis
230. NPECTRA- "A procedure for evaluation of nonlinear spectra from time histories" - Published on MCEER Users Networks: http://civil.eng.buffalo.edu/nspectra/, Ver 2.0) May, 1999, (Ver. 3.0) May 2011.

Go to List of Contents

PAPERS IN CONFERENCE PROCEEDINGS (including presentations)

231. Ryu K.P., Reinhorn A.M. and Filiatrault A. (2012), "Full Scale Dynamic Testing of Large Area Suspended Ceiling System", *Proceedings 15th World Conference on Earthquake Engineering, September 23-28, 2012, Lisbon Portugal-Paper 5474*
232. Oikonomou, K., Constantinou, M.C., Reinhorn A.M and Yenidogan, C. (2012), " Seismic Isolation of Electrical Equipment "Seismic Table Simulation", *Proceedings 15th World Conference on Earthquake Engineering, September 23-28, 2012, Lisbon Portugal, Paper 5340*
233. Attary N., Symans M., Nagarajaiah S., Reinhorn A.M., Constantinou M.C., Taylor D., Pasala D.T.R., Sarlis A.A.S. (2012), "Performance Evaluation of a Seismically-Isolated Bridge Structure with Adaptive Passive Negative Stiffness", *Proceedings 15th World Conference on Earthquake Engineering, September 23-28, 2012, Lisbon Portugal-Paper 4310*
234. N. Attary, M. Symans, S. Nagarajaiah, A. M. Reinhorn, M. C. Constantinou, D. Taylor, A. A. Sarlis, and D. T. R. Pasala, (2013), "Performance Assessment of a Highway Bridge Structure employing Adaptive Negative Stiffness for Seismic Protection", Proceedings Structures Congress 2013: 1736-1746.
235. D. T. R. Pasala & S. Nagarajaiah, A. A. Sarlis, A. M. Reinhorn, M. C. Constantinou, and D. Taylor (2012), "A New Structural Modification Approach for Seismic Protection using Negative Stiffness Device", *Proceedings 15th World Conference on Earthquake Engineering, September 23-28, 2012, Lisbon Portugal-Paper 5490*
236. A. A. Sarlis, M. C. Constantinou, A. M. Reinhorn, D. T. R. Pasala, S. Nagarajaiah, and D. Taylor (2012), "Seismic Protection of Structures Using Novel Negative Stiffness Device", *Proceedings 15th World Conference on Earthquake Engineering, September 23-28, 2012, Lisbon Portugal-Paper5498*
237. Roh H., Lee J.S., and Reinhorn A.M. (2012), "Equivalent Viscous Damping Of SMA Bars Connectors in Post Tensioned Segmental Bridge Piers", *Proceedings 15th World Conference on Earthquake Engineering, September 23-28, 2012, Lisbon Portugal-Paper1329*
238. Cimellaro G.P., Arcidiacono V., Reinhorn A. M., Bruneau M., (2012), "Community Resilience Evaluation Including Interdependencies", *Proceedings 15th World Conference on Earthquake Engineering, September 23-28, 2012, Lisbon Portugal*
239. Koliou, M, Filiatrault, A., and Reinhorn A.M (2011), "Seismic Protection of Electrical Transformer-Bushing Systems Incorporating Flexural Stiffeners", *Proceedings Eighth International Conference on Structural Dynamics EURODYN 2011*, Leuven, Belgium
240. Cimellaro G.P., Renschler C., Frazier A., Arendt, L., Michel Bruneau, M., and Reinhorn A.M (2011), "Community resilience index for road network systems", *Proceedings of Eighth International Conference on Structural Dynamics EURODYN 2011*, Leuven, Belgium
241. Sarlis AAS, Pasala DTR, Constantinou MC, Reinhorn AM, Nagarajaiah S, Taylor D. (2011) "Negative Stiffness Device for Seismic Protection of Structures – An Analytical and Experimental Study." *Proceedings 3rd International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering (COMAS)*, Corfu, Greece.
242. Pasala, D. T. R., Sarlis, A. A. S., Nagarajaiah, S., Reinhorn, A. M., Constantinou, M. C., Taylor, D.,(2011) " True Adaptive Negative Stiffness: A new structural modification Approach for Seismic Protection" , *Proceedings of 2011 NSF Engineering Research and Innovation Conference*, Atlanta, Georgia

243. Sarlis, A. A. S., Pasala, D. T. R., Nagarajaiah, S., Reinhorn, A. M., Constantinou, M. C., Taylor, D., (2011) "Negative Stiffness Device for Seismic Protection of Structures – An Analytical and Experimental Study", *Proceedings of 2011 NSF Engineering Research and Innovation Conference*, Atlanta, Georgia
244. Nagarajaiah S., Reinhorn A. M., Constantinou M. C., Taylor D., Pasala, D. T. R., Sarlis, A. A. S., (2010), "True Adaptive Negative Stiffness: A New Structural Modification Approach for Seismic Protection", *Proceedings of 5th World Conference on Structural Control and Monitoring*, July 12-14, 2010, Tokyo, Japan
245. Renschler, C.S., Frazier, A.E., Arendt, L.A. Cimellaro, G.P., Reinhorn, A.M., and Bruneau, M. (2010). "Developing the 'PEOPLES' resilience framework for defining and measuring disaster resilience at the community scale", *9th US and 10th Canadian Conference on Earthquake Engineering*. Toronto, Canada, July 25-29 2010.
246. Tsitos A., Mosqueda G, Filiatrault, A and Reinhorn, A.M.(2010), "Experimental Investigation of the Progressive Collapse of a Steel Post-Tensioned Energy Dissipating Frame**",** *9th US and 10th Canadian Conference on Earthquake Engineering*. Toronto, Canada, July 25-29 2010.
247. Mosqueda G., Filiatrault A., Reinhorn A.M., Retamales R., (2010), "Full-scale Experimental Facility and Loading Protocol for Seismic Performance Assessment of Nonstructural Systems", *Proceedings of 2010 ASCE/SEI Structures Congress*, May 12-15, 2010, Orlando, FL, 2621-2633
248. Gilani, A. S., Takirov, S, Reinhorn A M., and Mahin S (2010), "Seismic Qualification Testing "Seismic Qualification Testing of Suspended Ceilings: Lessons Learned and the Requirements for a New Test Standard and Qualification Procedure" *Proceedings of 2010 ASCE/SEI Structures Congress*, May 12-15, 2010, Orlando, FL, 2555-2566
249. Reinhorn A.M, Ryu, K.P., Maddaloni G., (2010),"Advances in Seismic Qualifications of Suspended Ceilings Results of NEES-GC Initiative", *Proceedings of 2010 ASCE/SEI Structures Congress*, May 12-15, 2010, Orlando, FL, 2588-2599
250. Muhammad F., Roh H., Oikonomou K., Reinhorn A.M., (2010), "Seismic Evaluation of Transformer Bushings", *Abstract and Presentation at 2010 ASCE/SEI Structures Congress*, May 12-15, 2010, Orlando, FL
251. Oikonomou K., Roh H., Reinhorn A.M., Schiff A., Kempner L., (2010), "Seismic performance evaluation of high voltage transformer bushings", *Proceedings of 2010 ASCE/SEI Structures Congress*, May 12-15, 2010, Orlando, FL, 2724-2735
252. Cimellaro G.P., DeStefano, A. and Reinhorn A.M., (2010), "Considerations Regarding the Retrofit Intervention of Santa Maria di Collemaggio Basilica in L'Aquila Following 2009 Earthquake", *Proceedings of 2010 ASCE/SEI Structures Congress*, May 12-15, 2010, Orlando, FL, 1082-1091
253. Cimellaro, G. P., Reinhorn, A., and Bruneau, M. (2010), "Organizational Model of a Hospital System." *Proceedings of the New Zealand Conference in Safety*, 2010.
254. Cimellaro G.P., Roh H., Fahad, M., Reinhorn A.M., and Schiff, A., (2010), "Modeling Combined Friction-Viscous Damping in Response of Hollow Core Composite Insulators", *Proceedings of 2010 ASCE/SEI Structures Congress*, May 12-15, 2010, Orlando, FL, 2736-2747
255. Kong, D and Reinhorn, A.M, (2009), "Seismic Evaluation and Protection of High Voltage Disconnect Switches", *Proceedings of ASCE/TCLEE Conference 2009*, Paper #252, Oakland CA, June 29-July 1, 221-231
256. Cimellaro, G.P., Reinhorn, A.M. and Schiff, A., (2009), "Evaluation of Hollow Core Composite Insulators", *Proceedings of ASCE/TCLEE Conference 2009*, Paper #251, Oakland CA, June 29-July 1, 209-220
257. Cimellaro, G. P., Fumo, C., Reinhorn, A., and Bruneau, M. (2009), "Organizational Model of a Hospital System." *Proceedings of the 10th International Conference on Structural Safety and Reliability (ICOSSAR2009)*, Senriyama Campus, Kansai University, Osaka, Japan, September 13 - 17, 2009.
258. Gilani, A. S., Reinhorn A M., Ingratta, T., Glasgow, R.B and O. Lavan (2008), "Earthquake Simulator Testing and Evaluation of Suspended Ceilings: Standard and Alternate Perimeter Installations" *Proceedings of 2008 ASCE Structures Congress*, May 16-19, 2008, Vancouver, BC, Canada
259. Cimellaro, G. P., Fumo, C., Reinhorn, A. M. and Bruneau, M. (2008). "Seismic resilience of health care facilities" *14th World Conference on Earthquake Engineering (14WCEE)*, Beijing, China, 12-17 October, 2008.
260. Tsitos, A, Mosqueda, G., Filiatrault, A. and Reinhorn, A. M. (2008). "Experimental Investigation of Progressive Collapse of Steel Frames under Multi-Hazard Extreme Loading" *14th World Conference on Earthquake Engineering (14WCEE)*, Beijing, China, 12-17 October, 2008.
261. Lavan, O., Dargush, G.F. and Reinhorn, A. M. (2008), "Multi-Objective Evolutionary Optimization of Passive Energy Dissipation Systems under Seismic Loading", *14th World Conference on Earthquake Engineering (14WCEE)*, Beijing, China, 12-17 October, 2008

262. Lavan, O., Sivaselvan, M., Reinhorn, A. M. and Dargush, G.F., (2008), "Progressive Collapse Analysis Through Strength Degradation and Fracture in the Mixed Lagrangian Framework", *14th World Conference on Earthquake Engineering (14WCEE)*, Beijing, China, 12-17 October, 2008
263. Roh, H. and Reinhorn, A. M. (2008). "Dynamic Response of Weakened Structures Using Rocking Columns" *14th World Conference on Earthquake Engineering (14WCEE)*, Beijing, China, 12-17 October, 2008.
264. Soong, T.T., Cimellaro, G.P., and Reinhorn A. M. (2008), "Integrated Design of Smart Structures" (Invited Paper), *Third International Conference on Smart Materials and Structures*, Sicily, Italy, June 2008.
265. Cimellaro, G. P., Fumo, C., Reinhorn, A. M., and Bruneau, M. (2008). "Organizational Seismic Resilience of Health care facilities" *Proceedings of 60th EERI Annual Meeting 2008*, Astor Crown Plaza Hotel, New Orleans, Louisiana, February 6-9, 2008.
266. Gilani, A. S., Reinhorn A M. and Glasgow, R.B, (2007), "Earthquake Simulator Testing and Evaluation of Suspended Ceiling System", *Proceedings 12th US-Japan Workshop / ATC-15-11 Seminar* (Invited paper), Kauai, HI
267. Cimellaro G.P., Reinhorn, A.M. and Bruneau M (2007) "MCEER's Vision on the Seismic Resilience of Health Care Facilities", *Proceedings of 12th Congress ANIDIS of Italian Seismic Engineering*, June 10-14, 2007, University of Pisa, Italy,
268. Cimellaro, G. P., Reinhorn, A. M., and Bruneau, M. (2007). "Seismic Resilience of Health Care Facilities: An MCEER vision." *Proceedings of 59th EERI Annual Meeting 2007*, University City Hilton Hotel, Los Angeles, California, February 7-10, 2007.
269. Shao X. and Reinhorn, A.M., (2007), "A Unified Approach for Real Time Dynamic Hybrid Simulation", *Proceedings of Ninth Canadian Conference on, Earthquake Engineering*, 26-29 June 2007, Ottawa, Ontario, Canada
270. Cimellaro G.P., Lavan O, Reinhorn A.M. and Viti S., (2007), "Optimal Strength Reduction and Enhanced Damping of Inelastic Structures" *10th World Conference on Seismic Isolation, Energy Dissipation and Active Vibrations Control Of Structures*, May 28-31, 2007, Istanbul, Turkey
271. Whittaker A.S., Hough P.A. Reinhorn A.M. and Bachman R.E (2007), "Interpretation of Seismic Qualification and Fragility Data for Suspended Ceiling Systems", *Proceedings of 2007 ASCE Structures Congress*, May 16-19, 2007, Long Beach CA
272. Schachter, M and Reinhorn A.M., (2007), "Analytical Modeling of Zipper Frames Subjected to Shaking Table Testing", *Proceedings of 2007 ASCE Structures Congress*, May 16-19, 2007, Long Beach CA
273. Shao, X, and Reinhorn A.M., (2007), "Real Time Hybrid Dynamic Simulation with Substructure Techniques", *Proceedings of 2007 ASCE Structures Congress*, May 16-19, 2007, Long Beach CA
274. Bruneau, M. and Reinhorn (2006) "Exploring the Concept of Seismic Resilience for Acute Care Facilities", *Proceedings of First European Conference on Earthquake Engineering and Seismology* (1st ECEES), September 3-8, 2006, Geneva, Switzerland, Paper #29
275. Mosquesda. G., G., Retamales, R., Filiatrault, A., and Reinhorn, A. (2006), "Experimental Evaluation Study of Nonstructural Components Under Full-Scale Floor Motions," *4th International Conference on Earthquake Engineering*, Taipei, Taiwan, 8 p.
276. Cimellaro, G.P. and Reinhorn A.M.(2006), "Sensitivity Study of Weakened Structures with Supplemental Dampers", *Proceedings of Fourth World Conference on Structural Control and Monitoring*, July 21-22, 2006, San Diego, CA, Paper #79
277. Shao, X,, Reinhorn A.M., and Sivaselvan M (2006), "Force Controlled Actuators in Hybrid Testing", *Proceedings of Fourth World Conference on Structural Control and Monitoring*, July 21-22, 2006, San Diego, CA
278. Bruneau M. and Reinhorn, A.M. (2006), "Overview of the Resilience Concept", *Proceedings of the 8th U.S. National Conference on Earthquake Engineering (8NCEE)*, San Francisco, April 2006, Paper #1629
279. Cimellaro G. P., Reinhorn A. M. and Bruneau M. (2006), "Quantification of Seismic Resilience", *Proceedings of the 8th U.S. National Conference on Earthquake Engineering (8NCEE)*, San Francisco, April 2006, Paper #1094
280. Kong D, Schiff A, Reinhorn A.M. and Filiatrault A.R.(2006), "Seismic Performance of Porcelain Station Post Insulators", *Proceedings of the 8th U.S. National Conference on Earthquake Engineering (8NCEE)*, San Francisco, April 2006, Paper #1616
281. Mosqueda G, Retamales R, Filiatrault A.R. and Reinhorn, A. M. (2006), " Experimental Study on the Seismic Behavior of Nonstructural Components Subjected to Full-Scale Floor Motions", *Proceedings of the 8th U.S. National Conference on Earthquake Engineering (8NCEE)*, San Francisco, April 2006, Paper #1359

282. Roh, H. S. and Reinhorn A. M (2006), "Nonlinear behavior of rocking beam-columns with confined ends" *Proceedings of the 8th U.S. National Conference on Earthquake Engineering (8NCEE)*, San Francisco, April 2006, Paper #1627
283. Schachter, M and Reinhorn A.M. (2006), "On the Importance of 3D Analysis for Zipper Frames Structures", *Proceedings of the 8th U.S. National Conference on Earthquake Engineering (8NCEE)*, San Francisco, April 2006, Paper #1621
284. Shao, X,, Andrei Reinhorn A.M., and Sivaselvan M (2006), "Real Time Dynamic Hybrid Testing Using Force-Based Substructuring", *Proceedings of the 8th U.S. National Conference on Earthquake Engineering (8NCEE)*, San Francisco, April 2006, Paper #1108
285. Cimellaro, G.P., Reinhorn A.M And Bruneau M. (2005), "Seismic Resilience of a Health Care Facility", *Proceedings, 2005 Asian-Pacific Network of Centers for Earthquake Engineering Research (ANCER) Annual Meeting*, paper N3-Session III, November 10-13, 2005, Jeju, Korea
286. Mosqueda, G., Retamales, R., Filiatrault, F., and Reinhorn, A.M. (2005), "Seismic behavior of nonstructural partition walls subjected to full-scale floor motions", *Proceedings, 2005 Asian-Pacific Network of Centers for Earthquake Engineering Research (ANCER) Annual Meeting*, November 10-13, 2005, Jeju, Korea.
287. Reinhorn A.M., Kusumastuti, D.K., and Rutenberg A. (2005) "Seismic Response of Irregular Frame Structures near Collapse: Experimental and Analytical Investigation", *Proceedings of Fourth European Workshop on Irregular and Complex Structures*, Thessaloniki, Greece, August 27-28, 2005
288. Reinhorn, A., Sivaselvan, M.V., Liang, Z., Shao, X., Pitman, M., and Weinreber, S. (2005), "Large Scale Real Time Dynamic Hybrid Testing Technique – Shake Tables Substructure Testing", *Proceedings of The First International Conference on Advances in Experimental Structural Engineering*, AESE 2005 July, Nagoya, Japan, 457-464.
289. Mosqueda G., Stojadinovic B., Hanley J., Sivaselvan, M.V and Reinhorn A.M., (2005), "Fast Hybrid Simulation With Geographically Distributed Substructures", Proceedings *of The First International Conference on Advances in Experimental Structural Engineering*, AESE 2005 July, Nagoya, Japan, 449-456.
290. Reinhorn A.M., Viti, Stefania and Cimellaro, GianPaolo (2005), "Retrofit of structures: Strength reduction with damping enhancement", *Proceedings of The 37th Technical Panel Meeting on Wind and Seismic Effects*, UJNR 2005, May 16-21, Tsukuba, Japan.
291. Filiatrault, A.R, Aref A, Bruneau, M., Constantinou M.C., Lee G.C., Mosqueda G, Reinhorn, A.M., Whittaker, A.S., (2005), "MCEER's Research on the Seismic Response Modification of Structural and Non-Structural Systems and Components in Hospitals", ATC-Japan Workshop,
292. Filiatrault, A., Aref, A., Bruneau, M., Constantinou, M., Lee, G., Reinhorn, A., Whittaker (2004), A., *Invited Speaker (Bruneau)*, "MCEER's Integrated Research to Enhance the Seismic Resilience of Acute Care Facilities", International Conference in Commemoration of 5th Anniversary of the 1999 Chi-Chi Taiwan Earthquake, Taipei, September 2004 - on CD-ROM - also presented/published in Structural Engineers Association of California 2004 Convention, Monterey, California, August 2004, pp.73-81
293. Bruneau M, Chang S E.,, Eguchi R T, Lee G.C., O'Rourke T.D., Reinhorn A M., Shinozuka M, Tierney K, Wallace W.A., VonWinterfeldt D. (2004), "A Framework To Quantitatively Assess And Enhance The Seismic Resilience of Communities", *Proceedings of the 13th World Conference on Earthquake Engineering* (13WCEE), Vancouver, CA, July 2004
294. Karakaplan, A, Sivaselvan, M., and Reinhorn, A., (2004) "A User-Friendly Environment for Nonlinear-Structural Analysis", *Proceedings of the 13th World Conference on Earthquake Engineering* (13WCEE), Vancouver, CA, July 2004
295. Sivaselvan, M and Reinhorn, A. (2004), "Lagrangian Approach to Structural Collapse Simulation", *Proceedings of the 13th World Conference on Earthquake Engineering* (13WCEE), Vancouver, CA, July 2004
296. Reinhorn, A., Sivaselvan, M.V., Liang, Z and Shao, X., (2004) "Real-Time Dynamic Hybrid Testing of Structural Systems", *Proceedings of the 13th World Conference on Earthquake Engineering* (13WCEE), Vancouver, CA, July 2004
297. Bruneau, M., Reinhorn, A., Constantinou, M., Whittaker, A., Thevanayagam, S., (2004) "The UB-NEES Versatile High Performance Testing Facility", 13th World Conference on Earthquake Engineering, Vancouver, Canada, August 2004 - CD-ROM paper #1577.
298. Reinhorn, A. M. Sivaselvan, M.V, Liang Z, and Shao X. (2004), "Real-time Dynamic Hybrid Testing of Structural Systems", Proceedings of Workshop on "Performance-Based Seismic Design (PBSD) -- Concepts and Implementation", Bled Slovenia, June 28-July 1
299. Bruneau M. and Reinhorn, A. M. (2004), "Seismic Resilience of Communities – Conceptualization and Operationalization", Proceedings of Workshop on "Performance-Based Seismic Design (PBSD) -- Concepts and Implementation", Bled Slovenia, June 28-July 1

300. Reinhorn, A. M. Sivaselvan, M.V, Weinreber S. and Shao X. (2004), "Real-Time Dynamic Hybrid Testing of Structural Systems", *Proceedings of Third European Conference on Structural Control (3ECSC*), Vienna University of Technology, Vienna, Austria, July 12-15
301. Reinhorn, A. M. Sivaselvan, M.V, Weinreber S. and Shao X. (2004), "A Novel Approach to Dynamic Force Control", *Proceedings of Third European Conference on Structural Control (3ECSC*), Vienna University of Technology, Vienna, Austria, July 12-15, 2004
302. Bruneau, M., Reinhorn, A., Whittaker, A., Constantinou, M., Thevanayagam, S., Sivaselvan, M., Shao, X., Hanley, J., Pitman, M.C., Albrechcinski, T., (2004), *Invited paper*, "The new UB-NEES Versatile Earthquake Engineering Facility for Real-Time Dynamic Hybrid Testing (RTDHT)", *ASCE 17th Engineering Mechanics Conference*, Delaware, June 2004.
303. Filiatrault, A., Lee, G., Aref, A., Bruneau, M., Constantinou, M.C., Reinhorn, A., Whittaker, A., (2004), "Recent Progress Towards the Seismic Control of Structural and Non-structural Systems in Hospitals", *Proceedings of US-Japan 36th Technical Meeting of Panel on Wind and Seismic Effects*, Washington, D.C., May 2004.
304. Bruneau, M., Reinhorn, A., Whittaker, A., Constantinou, M., Thevanayagam, S., Sivaselvan, M., Shao, X., Hanley, J., Pitman, M.C., Albrechcinski, T., (2004) *Invited Speaker*, "The new UB-NEES Versatile Earthquake Engineering Hybrid Testing Facility", Proceedings of the ASCE Seminar on Performance Based Earthquake Engineering - Seismic Retrofit of Structures, Brooklyn, New York, March 2004, pp.81-88
305. Bruneau, M., Reinhorn, A., Whittaker, A., Constantinou, M., Thevanayagam, S., Sivaselvan, M., Shao, X., Hanley, J., Pitman, M.C., Albrechcinski, T., *Invited Speaker*, "The New UB-NEES Versatile Earthquake Engineering Hybrid Testing Facility", Proceedings of Joint NCREE/JRC Workshop on International Collaboration on Earthquake Disaster Mitigation Research, Taipei, Taiwan, Nov. 2003, on CD-ROM.
306. Whittaker, A., Bruneau, M., Reinhorn, A., Constantinou, M., Thevanayagam, S., Pitman, M., Sivaselvan, V., Liang, Z., Winter, K. (2003), "Real-Time Dynamic Hybrid Testing", NCREE/JRC Workshop on International Collaboration on Earthquake Disaster Mitigation Research, Taipei, Taiwan, May 7-9 2003.
307. Reinhorn, A. M, Barron-Corverra, R., and Viti, S. (2003), "Global Spectral Evaluation of Seismic Fragility of Structures" *ATC-58 – Seminar and Workshop* – San Francisco, April 2003
308. Badillo, H., Whittaker, A.S., and Reinhorn, A.M. (2003), "Performance Characterization of Suspended Ceiling Systems," *Proceedings*, ATC-29-2 Seminar on the Seismic Design, Performance and Retrofit of Nonstructural Components in Critical Facilities, Irvine, CA, October 2003
309. Reinhorn, A.M., Bruneau, M., Chu, S.Y,, Shao, Y. and Pitman, M. (2003), "Large Scale Real Time Dynamic Hybrid Testing Technique– Shake Tables Substructure Testing", *Proceedings of ASCE Structures Congress*, Seattle WA, May, 2003., Paper 587
310. Reinhorn, A.M., Viti, S., and Whittaker, A.S. (2002), "Retrofit of structures: strength reduction with damping enhancement," *Proceedings*, KEERC-MCEER Joint Seminar on Contributions to Earthquake Engineering, Multi-disciplinary Center for Earthquake Engineering Research, Buffalo, New York, July 2002.
311. Bruneau, M., Reinhorn, A.M., Constantinou, M.C., Thevanayagam, S., Whittaker, A.S., Chu, S.Y., Pitman, M. and Winter, K. (2002), "The University at Buffalo Node of The NEES Network - A Versatile High Performance Testing Facility Towards Real-Time Dynamic Hybrid Testing", *Proceedings of the 12th European Conference on Earthquake Engineering* (12ECEE). (Paper Reference No.823)
312. Reinhorn, A. M., Barron-Corverra, R. and Ayala, A.G. (2002), "Global Spectral Evaluation of Seismic Fragility of Structures", *Proceedings of the 7th U.S. National Conference on Earthquake Engineering* (7NCEE), (Paper Reference 731-ST-6c)
313. Sivaselvan, M. V. and Reinhorn, A.M. (2002), "Collapse Analysis of Planar Frames", *Proceedings of the 7th U.S. National Conference on Earthquake Engineering* (7NCEE), (Paper Reference 711-ST-3a))
314. Reinhorn, A.M., Bruneau, M., Whittaker, A.S., Constantinou, M.C., Thevanayagam, S., Chu, S.Y., Pitman, M. and Winter, K. (2002), "A Versatile High Performance Testing Facility Towards Real-Time Dynamic Hybrid Testing", *Proceedings of the 7th U.S. National Conference on Earthquake Engineering* (7NCEE), (Paper Reference S-17/NS-1d)
315. Reinhorn, A.M., Ribakov, Y. and Chu, S.C. (2002), "Design of Amplified Structural Damping Using Optimal Considerations", *ATC-17-2 Seminar on Response Modification Technologies for Performance-Based Seismic Design*, Los Angeles, May 30-31
316. Reinhorn A.M. (2002), Invited Key Note Lecture - "Modern Methods of Seismic Protection - Base Isolations and More…" *Eighth Chilean Conference on Seismology and Earthquake Engineering*, April 26-28
317. Bruneau, M., Reinhorn, A.M., Constantinou, M.C., Theva, S., Thevanayagam, Whittaker, A.S., Chu, S.C., Pitman, M., Winter, K. (2002), "Versatile Shake Tables and Large-Scale High-Performance Testing Facility Towards Real-Time Hybrid Seismic Testing", *Proceedings of ASCE Structures Congress*, Denver April, 2002,

318. Chu,, S.Y., Reinhorn, A.M., and Soong, T.T. (2002), "Issues in Implementation of Active Structural Control Systems: A Case Study", *Proceedings of the Third World Conference on Structural Control*, Como, Italy
319. Chu,, S.Y., Soong, T.T. and. Reinhorn, A.M (2002), "Control Performance Verification by Using a Real-Time Structural Simulator", *Proceedings of the Third World Conference on Structural Control*, Como, Italy
320. Reinhorn, A.M, Barron-Corverra, R and Ayala, A.G. (2001), "Spectral Evaluation of Seismic Fragility of Structures", *Proceedings ICOSSAR 2001*, Newport Beach CA, June 2001
321. Reinhorn, A.M. (2000), "Advanced Technologies for Critical Facilities - Hospitals - Structural Control Examples", *MCEER / MEDAT-2 Workshop*, Las Vegas, Nov.30-Dec.1, 2000.
322. Reinhorn, A.M., Gluck, N., Gluck, J., & Levy, R. (2000), "Optimal Design of Dampers and Stiffeners In Structures Using Active Control Approaches", *Proceedings of the Third European Conference on Structural Control*, Paris, France
323. Chu, S. Y., Soong, T.T. and Reinhorn A.M. (2000), "Integration Issues in Implementation of Active Control Systems", Third European Conference on Structural Control, July, Paris, 2000 - CD-ROM
324. Naeim F, Skliros K, and Reinhorn, A. (2000), "Influence of Hysteretic Deteriorations on Seismic Response of Multistory Steel Frame Buildings" Structures 2000, ASCE/Structures Congress, 103-107
325. Naeim F., Reinhorn A.M. and Skileros K. (2000), "Influence of Hysteretic Deterioration on Seismic Response of Multistory Steel Frame Buildings", STESA 2000 Conference, Montreal, June, 2000
326. Naeim F., Reinhorn A.M. and Skileros K. (2000), "Influence of Hysteretic Deterioration on Seismic Response of Multistory Steel Frame Buildings", *Proceedings of Twelve World Conference on Earthquake Engineering*, Auckland, New Zealand, Jan 30-Feb.6, 2000.
327. Reinhorn, A.M, Simeonov, V.K. and Sivaselvan, M.V. (2000), "Nonlinear Analysis of Frame Systems by the State-Space Approach", *Proceedings of Twelve World Conference on Earthquake Engineering*, Auckland, New Zealand, Jan 30-Feb.6, 2000.
328. Simeonov, V.K., Sivaselvan, M.V. and Reinhorn, A.M. (1999), "Nonlinear Analysis of Structural Frame Systems by the State-Space Approach", *Proceedings of European Conference on Computational Mechanics 99*, Munich, Germany, 1-3 September 1999.
329. Reinhorn A.M. and Barron R. (1999), "Spectral Evaluation of Fragility of Structures", Proceedings of First Romanian-American Workshop in Structural Engineering", *Proceedings of 1st Romanian American Workshop in Structural Engineering, A.I.Cuza University of Iasi Publishing House*, June 25-30, 1999, Iasi, Romania.
330. Naeim F., Reinhorn A.M. and Skliros K., (1999), "Influence of Hysteretic Deterioration on Seismic Response of Multistory Steel Frame Buildings", *Proceedings of Los Angeles Tall Building Annual Conference*, May 1999
331. Ahmad, S. and Reinhorn, A.M. (1999), "A New Approach to Civil Engineering Education at SUNY-Buffalo", ASEE Spring Conference, April 1999.
332. Reinhorn, A.M., Simeonov, V, Derue, G. and Constantinou, M.C., (1998), "Sensitivity of Inelastic Seismic Response of Base Isolated Bridges," US-ITALY Workshop on Protective Systems for Bridges (Invited Paper), New York, April 26-28, 1998.
333. Riley, M.A., Cao, H., Reinhorn, A.M., and Soong, T.T. (1998), "Design of an Active Mass Damper for a 340m Transmission and Observation Tower", *Second World Congress on Structural Control*, June, 27-30, Kyoto, 1998.
334. Reinhorn, A.M., Soong, T.T., and Cao, H. (1998), "Design of an Active Mass Damper for a Tall TV Tower" *ASCE/ Structures World Congress*, July 20-25, San Francisco, 1998
335. Nagarajaiah, S, Reinhorn, A.M. and Constantinou, M.C. (1998), "Nonlinear Dynamic Analysis of base Isolated Structures-Current Techniques," *ASCE/ Structures World Congress*, July 20-25, San Francisco, 1998.
336. Reinhorn, A.M., Gluck, N., Gluck, J., & Levy, R. (1998), "Optimal Design of Supplemental Dampers for Control of Structures", Eleventh European Conference on Earthquake Engineering, Sept, 12-14, Paris, 1998 - CD-ROM
337. Sivaselvan, M., Skliros, K. and Reinhorn A.M. (1998), "Multilinear and Smooth Hysteretic Models for Degrading Structures", *Proc. of International Symposium on Impact and Friction of Solids, Structures and Intelligent Machines: Theory and Applications in Engineering and Science"*, June 27-30, Ottawa, 1998
338. Riley, M., Cao, H., Reinhorn, A.M., and Soong, T.T. (1997), "Design of an Active Mass damper for a 340m Transmission Tower", in *8Th US National Conference on Wind Engineering*, Baltimore, June 1997
339. Kasalanati, A., Reinhorn, A.M., Constantinou, M. and Sanders, D., (1997), "Experimental Study of Ball-In-Cone Isolation System," in *Proceedings of ASCE / Structures Congress* , Portland OR, April 1997, pp 1191-1195
340. Kasalanti, A., Sanders, D., Reinhorn, A.M., Constantinou, M. (1996), "Experimental Study of Ball-In-Cone Isolation System," in *Proceedings of 12th US-Japan Bridge Engineering Workshop*, (UJNR - Panel on Wind and Seismic Effects), Buffalo, NY, October 1996, Sect. 6(4).

341. Grigoriu, M., Soong, T.T. nd Reinhorn, A.M. (1996), "Time Delay Linear Systems with Gaussian White Noise Input," Proceedings of 7th ASCE Specialty Conference on Probabilistic Mechanics and Structural Reliability, August 7-9, 1996, Worcester, MA.
342. Valles-Mattox R.E. and Reinhorn, A. M. (1996), "An energy approach to pounding of structures." Eleventh World Conference on Earthquake Engineering (11WCEE), Acapulco, Mexico, June 23-24, 1996, Paper #2106, 1407.
343. Kunnath S K, Valles-Mattox R E. and Reinhorn A M. (1996),"Evaluation of seismic damageability of typical R/C Building in Midwest United States," Eleventh World Conference on Earthquake Engineering (11WCEE), Acapulco, Mexico, June 23-24, 1996, Paper #1300, 1079.
344. Reinhorn, A.M. and Li, Chen (1996), "Retrofit of concrete structures using supplemental damping devices," Eleventh World Conference on Earthquake Engineering (11WCEE), Acapulco, Mexico, June 23-24, 1996, Paper #78, 848.
345. Valles-Mattox R. E. and Reinhorn A. M. (1996), "Evaluation, prevention and mitigation of pounding effects in building structures," Eleventh World Conference on Earthquake Engineering (11WCEE), Acapulco, Mexico, June 23-24, 1996. Paper #26, 586.
346. Bracci J.M. and Reinhorn, A.M. (1996), "Shaking Table Testing of a 1:3 Scale R/C Frame Model," Proceedings of Third European Conference on Structural Dynamics, Firenze, Italy, June 7-8, 1996, 893-897.
347. Reinhorn, A.M. (1996), "Introduction to Dynamic and Static Inelastic Analysis Techniques" Proceedings of Annual Meeting - Los Angeles Tall Buildings Structural Design Council, May 10, 1996, (Keynote Speaker)
348. Reinhorn, A.M., and Li, C. (1995), "Retrofit of R/C Structures with Supplemental Damping," Proceedings *3rd Turkish Conference in Earthquake Engineering*, Istanbul, Turkey, March 1995, 556-566. (invited paper)
349. Yang, J.N., Wu, J.C., Reinhorn, A.M., Riley, M.A., Schmitendorf, W.E., and Jabbari, F. (1994), "Experimental Verification of H_{oo} and Sliding Mode Control for Seismic Excited Buildings," *Proceedings of the First World Conference on Structural Control*, Angeles, California, Vol. 2, August 1994 , TP4: 63-72.
350. Reinhorn, A.M., and Riley, M.A. (1994), "Control of Bridge Vibrations with Hybrid Devices," *Proceedings of the First World Conference on Structural Control*, Los Angeles, California, Vol. 2, August 1994 TA2: 50-59.
351. Deluca, A., Reinhorn, A.M., Faella, G., Mele,E., and Ramasco, R. (1994), "Design Level and Damage in Base Isolated Steel Structures," *Proceedings of Tenth European Conference in Earthquake Engineering*, Balkema Publishers, Wiena, Austria, Sept. 1994, pp2xxx-2xxx
352. Soong, T.T, Reinhorn, A.M., Aizawa, S. and Higashino, M. (1994), "Recent Structural Applications of Active Control Technology," *Proceedings of Tenth European Conference in Earthquake Engineering*, Balkema Publishers, Wiena, Austria, Sept. 1994, 2801-2806.
353. Panahshahi, N., Reinhorn, A.M., and Kunnath, S., (1994), "Earthquake Simulation Study of One-Six Scale Model R/C Building with Flexible Floor Diaphragms," *Proceedings of the 5th U.S. National Conference on Earthquake Engineering*, Chicago, Illinois, July 1994, Vol. 2, 641-650.
354. Lobo, R., Reinhorn, A.M., and Kunnath, S. (1994), "Inelastic Response of 3D R/C Structures to Multidimensional Seismic Input," *Proceedings of the 5th U.S. National Conference on Earthquake Engineering*, Chicago, Illinois, July 1994, Vol. 1, 65-74.
355. Subramaniam, R., Reinhorn, A.M., Nagarajaiah, S. and Riley, M.A. (1994), "Fuzzy Sets Applications to Active Control of Structures," *Proceedings of the 5th U.S. National Conference on Earthquake Engineering*, Chicago, Illinois, July 1994, Vol. 1, 991-1000.
356. Riley, M.A., Reinhorn, A.M., Nagarajaiah, S., and Subramaniam, R. (1994), "Control Algorithms for Structures with Hybrid Isolation Systems," *Proceedings of the 5th U.S. National Conference on Earthquake Engineering*, Chicago, Illinois, July 1994 Vol. 1, 981-990.
357. Nagarajaiah, S. and Reinhorn, A.M. (1994), "Applicability of Pseudoforce Method to Highly Nonlinear Dynamic Problems", in *Analysis and Computations - Proceedings of the 11th Analysis and Computation Conference at the ASCE/Structures Congress* 1994, (F.Y.Chen Ed), Atlanta, May 1994, 165-172.
358. Soong, T.T., and Reinhorn, A.M. (1993), "Recent Structural Applications of Active Control Technology," *Proceedings 62nd SEAOC Convention*, Scottsdale, AZ, September 1993.
359. Subramaniam, R., Riley, M.A., Nagarajaiah, S., and Reinhorn, A.M. (1993), "Hybrid Control of Building Structures," 9th Symposium on Dynamics and Control of Large Structures: 93, VPI & SU, Blacksburg, VA, May 1993.
360. Subramaniam, R., Reinhorn, A.M., and Nagarajaiah, S. (1993), "Hybrid Control Using Fuzzy Set Theory," *Proceedings of Second Conference on Recent Advances in Active Control of Sound and Vibration*, VPI & SU, Blacksburg, VA, April 1993
361. Reinhorn, A.M., Bracci, J.M., and Mander, J.B. (1993), "Seismic Retrofit of Gravity Load Designed Reinforced Concrete Buildings," Proceedings of the 1993 US National Conference Earthquake, Memphis, May 1993, 245-254.

362. Riley, M.A., Nagarajaiah, S., and Reinhorn, A.M. (1993), "Hybrid Isolation Systems For Sensitive Equipment and Secondary Systems." Proceedings of the 1993 U.S. National Earthquake Conference, Memphis, TN, May 1993, 327-336.
363. Subramaniam, R.S., Reinhorn, A.M. and Nagarajaiah, S. (1993), "Application of Fuzzy Set Theory to the Active Control of Base-Isolated Structures," Proceedings of the Second IEEE International Conference on Fuzzy Systems (FUZZ-IEEE 1993), San Francisco, Mar28-Apr 1, 1993, (2), 871-876. *(Cat. No.93CH3136-9)*
364. Soong, T.T., and Reinhorn, A.M. (1993), "Case Studies on Active Control and Implementational Issues," Proceedings ATC-17-1 Seminar on Seismic Isolation Passive Energy Dissipation, and Active Control, San Francisco, California, March 11-12, 1993, Vol. 2, 701-714.
365. Reinhorn, A.M., Nagarajaiah, S., Riley, M.A., and Subramaniam, R., (1992), "Hybrid Control of Sliding Isolated Bridges," Proceedings of the Second U.S./Japan, Workshop on Bridge Research, Tokyo, 1992.
366. Riley, M.A., Nagarajaiah, S. and Reinhorn, A.M. (1992), "Hybrid Control of Absolute Motion of Aseismically Isolated Bridges," Proceedings of the Third Workshop on Bridge Engineering Research in Progress, University of California, San Diego, November 1992, 239-242.
367. Nagarajaiah, S., Feng, Q., Shinozuka, M. and Reinhorn, A.M. (1992), "Analysis of Bridges with Friction Controllable Sliding Isolation Systems." Proceedings Third NSF Workshop on Bridge Engineering Research in Progress, University of California, San Diego, November 1992, 243-246.
368. Reinhorn, A.M., and Soong, T.T. (1992), "Full Scale Implementation of Active Control Braces For Structural Control," Proceeding US/China/Japan Trilateral Workshop on Structural Control, Shanghai, China, October 1992, 141-150.
369. Subramaniam, R.S., Reinhorn, A.M., and Nagarajaiah, S. (1992), "Application of Fuzzy Set Theory to the Active Control of Base Isolated Structures", Proceedings of US/China/Japan Trilateral Workshop on Structural Control, Shanghai, China, October 1992, 293-300.
370. Mander, J.B., Bracci, J.M., Reinhorn, A.M. (1992), "Seismic Retrofitting of Reinforced Concrete Frames Using Masonry," Presented at the 3rd International Masonry Conference, London, October 1992, (published also in British Masonry Journal), Vol. 5, 1992.
371. Y.P. Wang, Reinhorn, A.M., T.T. Soong (1992), "Development of Design Spectra For Actively Controlled Structures," Proceedings U.S.-Italy-Japan Workshop on Structural Control and Intelligent Systems, Sorrento, Italy, 219-231, July 13-15, 1992.
372. Soong, T.T., Reinhorn, A.M., Wang, Y.P. Lin, R.C., and Riley, M.A. (1992), "Full-Scale Implementation of Active Structural Control", Proceedings of the Tenth World Conference on Earthquake Engineering, Madrid, Spain, 2131-2136, July 1992.
373. Reinhorn, A.M., Soong, T.T. (1992), "Full Scale Application of Active Bracing Systems", Proceedings of the ASCE Engineering Mechanics Division Specialty Conference, College Station, Texas, 1992.
374. Reinhorn, A.M., Soong, T.T., and Riley, M.A. (1992), "Full-Scale Implementation of Active Control in Structures," Proceedings of the IASS-CSCE Innovative Large Span Structures Congress, Toronto, Canada, pp. xx-xx, 1992.
375. Nagarajaiah, S., Riley, M., Reinhorn, A.M., and Shinozuka, M. (1992), "Hybrid Control of Sliding Isolated Bridges". Sixth Symposium Seismic, Shock and Vibration Isolation," Proceedings of 1992 Pressure Vessels and Piping Conf., ASME/PVP 237-2, 83New Orleans, June 1992, 83-89.
376. Nagarajaiah, S., Reinhorn, A.M. (1992), "Pseudo-force Method of Solution for Highly Nonlinear Systems," Proceedings Eight Conference on Computing and Civil Engineering, ASCE, Dallas, Texas, 913-268, June 1992.
377. Lobo, R.F., Kunnath, S.K., Reinhorn, A.M. (1992), "3-D Inelastic Dynamic Analysis of RC Structures," Proceedings 8th National Conference on Computing in Civil Engineering, Dallas, Texas, 905-912, June 1992.
378. Reinhorn, A.M. "Damage Control in Seismic Design of Structures," (1992), ASCE/Tenth Structures Congress, San Antonio, Texas, 930-934, April 1992.
379. Reinhorn, A.M., Valles, R. and Kunnath, S. (1992), "Analytical Investigation of Cypress Viaduct Failure During Loma Prieta Earthquake," Annual Convention of the Earthquake Engineering Research Institute, February 1992.
380. Reinhorn, A.M., Valles, R. and Kunnath, S. (1991), "Rapid Evaluation of Multistory Building Drift Under Lateral Loads," Proceedings of the 9th World Conference on Microcomputers in Civil Engineering, 120-124, 1991.
381. Nagarajaiah, S., Reinhorn, A.M., and Constantinou, M.C. (1991), "Lateral-Torsional Response of Sliding Isolated Structures", Proceedings Pacific Conference on Earthquake. Engineering, Auckland, New Zealand, 257-268, November 1991.

382. Nagarajaiah, S., Reinhorn, A.M., and Constantinou, M.C. (1991), "Lateral-Rocking Response of Slender Sliding Base Isolated Structures," Abstract 28th Annual Technical Meeting of the Society of Engineering Science, Gainesville, Florida, November 1991.
383. Constantinou, M.C., Reinhorn, A.M., Kartoum, A., And Watson, R. (1991), "Teflon Disc Bearing and Displacement Control Device Isolation System For Upgrading Seismically Vulnerable Bridges," Proceedings 3rd World Congress on Joints and Bearings, Toronto, Canada, Vol. 2, pp. xx-xx, October 1991. Awarded Best Paper Award
384. Reinhorn, A.M., Soong, T.T, Shinozuka, M. (1991), "Full-scale Structural Applications of Active Control Systems", Proceedings 23rd UJNR Joint Panel Meeting, NIST SP820, 159-168, Tsukuba, Japan, 1991
385. Reinhorn, A.M., Soong, T.T, Rodellar, J. (1991), "Input-output Discrete Time Control of Structures", Abstract ASCE EMD Specialty Conference, Columbus, OH, 1991
386. Reinhorn, A.M., Soong, T.T. (1991), "Full-Scale Implementation of Active Structural Control", Abstract ASCE Structures Congress, Indianapolis, IN, 1991.
387. Reinhorn, A.M., Soong, T.T. (1991), "Reliability Issues in Implementation of Active Control, Abstract ASCE Structures Congress, Indianapolis, IN, 1991.
388. Reinhorn, A.M., Soong, T.T. (1991), "Design and Maintenance of Actively Controlled Structures", Abstract ASCE Structures Congress, Indianapolis, IN, 1991.
389. Nagarajaiah, S., Reinhorn, A.M., and Constantinou, M.C. (1991), "Uplift Restraint for Sliding Base Isolated Structures", Proceedings Third World Congress on Joints and Bearings, Toronto, Ontario, October, Vol. 2, 1173-1185, October 1991.
390. Constantinou, M.C., Reinhorn, A.M., and Watson, R. (1990), "Combined Teflon Disk Bearing and Displacement Control Device Isolation System for Bridges", Proceedings Second Workshop on Bridge Engineering Research in Progress, University of Nevada, Reno, 225-228, October 1990.
391. Kunnath, S.K., Mander, J.B. and Reinhorn, A.M. (1990), "Seismic Response and Damageability of Gravity Load (Non-Seismic) Designed Buildings", Proceedings Ninth European Conference on Earthquake Engineering, Vol. 9, Moscow, USSR, 323-332, October 1990.
392. Reinhorn, A.M. and Soong, T.T. (1990), "Full Scale Implementation of Active Bracing For Seismic Control of Structures", U.S. National Workshop on Active Control, Los Angeles, CA, 201-208, October 1990.
393. Reinhorn, A.M., Soong, T.T. (1992), "Full-Scale Implementation of Active Structural Control in "Intelligent Structures, "Y.K. Wen (Ed.), Elsevier, London and NY, 252-263, 1992.
394. Andrade, R.A., Rodellar, J., Lopez, F.A., Reinhorn, A.M. and Soong, T.T. (1990), "Efficiency Global Assessment of Predictive Control of Structures", U.S. National Workshop on Active Control, Los Angeles, CA, 90-94, 1990.
395. Reinhorn, A.M., Soong, T.T., Fukao, Y. and Hayamizu, Y. (1990), "The Development of Tendon Systems and Mass Dampers for Active Structural Control", Abstracts of 8th ASCE/Structures Congress, Baltimore, Maryland, May 1990.
396. Fukao, Y., Nakai, M., Abe, H., Haniuda, N., Reinhorn, A.M., Soong, T.T. (1990), "Experiments of Active Mass Damper Control Under Seismic Loads", Abstracts of 8th ASCE/Structures Congress, Baltimore, Maryland, May 1990.
397. Nagarajaiah, S., Reinhorn, A.M., and Constantinou, M.C. (1990), "Analytical Modeling of Three-Dimensional Behavior of Base Isolation Devices", Proceedings Fourth U.S. National Conference on Earthquake Engineering, Palm Springs, California, Vol.3, 579-588, May 1990.
398. Kunnath, S.K. and Reinhorn, A.M. (1990), "Inelastic Response of R/C Beam-Columns Under Biaxial Excitations", Proceedings Fourth U.S. National Conference on Earthquake Engineering, Palm Springs, California, May 1990, Vol.2, 471-479.
399. Panahshahi, N., Kunnath, S.K. and Reinhorn, A.M. (1990), "Inelastic Modeling of R/C Buildings with Flexible Floors", *Proceedings Fourth U. S. National Conference on Earthquake Engineering*, Palm Springs, CA, Vol.2, 369-378, May 1990.
400. Reinhorn, A.M., Mander, J.B., Bracci, J.M. and Kunnath, S.K. (1990), "A Post-Earthquake Damage Evaluation Strategy For R/C Buildings", *Proceedings Fourth U.S. National Conference on Earthquake Engineering*, Palm Springs, California, Vol.2, 1047-1056, May 1990.
401. Reinhorn, A.M., Mander, J.B. and Kunnath, S.K. (1990), "Damage Based Design and Evaluation of Structural Systems - Future Approach", Invited Keynote Presentation, *Proceedings of (Israeli) Annual Symposium on Earthquake Engineering*, Ramat Gan, Israel, 3-11, May 1990.
402. Lin, C.C., Soong, T.T, Reinhorn, A.M., Lai, M.L., Park, S.Y., Naidu, H., Soom, A., Lee, Y.H., Demjanenko, V., Benenson, D. and Wright, S.E. (1989), "Machine Diagnostics by Inverse Filtering Techniques", *Proceedings of the International Machine Monitoring and Diagnostics Conference* (IMADC), Las Vegas, 155-160, September 1989.

403. Rodellar, J., Lopez-Almansa F., Wang, Y.P., Reinhorn, A.M., and Soong, T.T. (1989), "Experimental Study on Control of Building Structures for Active Cables", *Proceedings of Conference on Modern Practice in Stress and Vibration Analysis*, 89-98, Liverpool, England, April 1989.
404. Kunnath, S.K., Reinhorn, A.M. and Park, Y.J. (1989), "Macro-Modeling of R/C Building Structures for Seismic Damage Analysis", *Proceedings of 2nd East Asia Pacific Conference on Structural Engineering and Construction*, Bangkok, Thailand, Vol. 3, 79-84, January 11-13, 1989.
405. Prawel, S.P., Reinhorn, A.M. and Qazi, S.A. (1988), "Upgrading the Seismic Resistance of Unreinforced Brick Masonry Using Ferrocement Coatings", *Proceedings of 8th International Brick/Block Masonry Conference, Dublin, Ireland*, Vol. 2, 785-791, September 19-21, 1988.
406. Soong, T.T., Reinhorn, A.M. and Yang, J.N. (1988), "Active Response Control of Building Structures Under Seismic Excitations", Proceedings of 9th World Conference of Earthquake Engineering, Tokyo-Kyoto, Japan, Vol. VIII, 453-458, August 1988.
407. Park, Y.J., Reinhorn, A.M. and Kunnath, S.K. (1988), "Seismic Damage Analysis of Reinforced Concrete Buildings", Proceedings of 9th World Conference of Earthquake Engineering, Tokyo-Kyoto, Japan, Vol. VII, 211-216, August 2-9, 1988.
408. Mokha, A., Constantinou, M.C. and Reinhorn, A.M. (1988), "Teflon Bearings in Aseismic Base Isolations - Experimental Studies and Mathematical Modeling", *Proceedings ASME PVP Conference*, Pittsburgh, PA, Vol. 147, 9-13, June 1988.
409. Lai, M.L., Park, S.Y., Lin,C.C., Naidu, A., Soom, A., Reinhorn, A., Lee, Y.H., Soong, T.T., Demjenenko, V., Benenson, D., and Wright, S.E. (1988), "Measurements for Noninvasive Mechanical Diagnostics of Power Circuit Breakers", *Proceedings of Conference of First Society for Electric Power Research and Implementation*, March 1988.
410. McGreevy S., Soong, T.T. and Reinhorn, A. (1988), "An Experimental Study of Time Delay Compensation in Active Structural Control" *Proceedings of 6th International Modal Analysis Conference and Exhibits*, Vol. I, 733-739, Orlando, Florida, Feb. 1988.
411. McGreevy S. (1986), "Time Delay Compensation in Active Control of Structures" *MS Thesis*, University at Buffalo, SUNY (Co Advisors: T.T. Soong and A.M. Reinhorn)
412. Reinhorn, A., Soong, T.T. and Yang, J.N. (1986), "Active Control of Structures During Earthquakes", *Proceedings of the 8th European Conference on Earthquake Engineering*, Lisbon, Portugal, Vol. 5, 57-64, Sept. 1986.
413. Prawel, S.P., Reinhorn, A., and Kunnath, S.K. (1986), "Seismic Strengthening of Structural Masonry Walls With External Coatings", *Proceedings of the Third U.S. National Conference on Earthquake Engineering*, Charleston, South Carolina, Vol. 2, 1323-1334. August 1986.
414. Park, Y.J. and Reinhorn, A. (1986), "Earthquake Responses on Multistory Buildings Under Stochastic Biaxial Ground Motions", *Proceedings of the Third U.S. Conference on Earthquake Engineering*, Charleston, South Carolina, Vol. 2, 991-1001, August 1986.
415. Reinhorn, A., Manolis, G.D. and Wen, C.Y. (1986), "Control of Structures by Coupling Rubber Isolators and Active Pulses", *Proceedings of the Third U.S. National Conference on Earthquake Engineering*, Charleston, South Carolina, Vol. 3, 1899-1909, August 24-28, 1986.
416. Chung, L.L., Reinhorn, A., and Soong, T.T. (1986), "Active Control of Buildings Structures During Earthquakes", *Proceedings of the Third U.S. National Conference on Earthquake Engineering*, Charleston, South Carolina, Vol. 3, 1971-1980, August 24-28, 1986.
417. Reinhorn, A., and Kunnath, S.K. (1986), "Use of Spread Sheets for Design of Reinforced Concrete Elements", *Proceedings of the First Canadian Conference in Computer Applications in Civil Engineering/Micro-Computers*, McMaster University, Hamilton, Canada, Vol. I, 16-27, May 21-22, 1986.
418. Reinhorn, A., Soong, T.T., and Manolis, G.D. (1986), "Disaster Prevention of Deep-Water Offshore Structures by Means of Active Control", *Proceedings 5th Int. Symp. on Offshore Mechanics and Arctic Engineering*, Tokyo, Japan, Vol. 1, 39-44, April 13-17, 1986.
419. Reinhorn, A., Manolis, G.D., and Soong, T.T. (1986), "Restructuring of Numerical Algorithms for Active Control of Dynamic Systems", *Proceedings of the Fourth International Symposium on Numerical Methods in Engineering*, Atlanta, Georgia, 541-546, March 24-28, 1986.
420. Prawel, S.P. and Reinhorn, A. (1985), "Seismic Retrofit of Structural Masonry Using Ferrocement Overlay", *Proceedings of Third American Masonry Conference*, University of Texas at Arlington, 59/2 - 59/19, June 3-5, 1985.
421. Reinhorn, A., and Prawel, S.P. (1985), "Ferrocement for Seismic Retrofit of Structures Walls", paper refereed, discussed and included as *Proceedings of Second International Symposium on Ferrocement*, Bangkok, Thailand, 157-172, Jan. 14-16, 1985.

422. Prucz, Z., Soong, T.T. and Reinhorn, A. (1984), "Pulse Control of Deep-Water Offshore Structures", *ASCE/Structures Congress*, May 14-18, Atlanta GA, preprint 84-012.
423. Agai, E., Reinhorn, A. And Lee, G.C. (1983), "Microprocessors as Pre- and Post-Processors in CAD Systems", *Proceedings of the 1st National Conference on Microcomputers in Civil Engineering*, ASCE & University of Central Florida, Orlando, 122 - 125, Nov. 1983.
424. Reinhorn, A., and Prawel, S.P. (1983), "The Use of Ferrocement in a Large Shaking Table", *Proceedings of Colloquium and Session of Commissions IASS and RILEM on Ferrocement*, Moscow, USSR, Oct. 1983.
425. Reinhorn, A., and Prawel, S.P. (1983), "Design of a Composite Shaking Table for Earthquake Simulation", *Proceedings of 8th Conference on Electronic Computation*, ASCE & Univ. of Texas, Houston, Texas, 725 - 736, 21-23 Feb. 21-23, 1983.
426. Prawel, S.P. and Reinhorn, A. (1981), "Properties in Flexure of Under Reinforced Ferrocement Panels in Two-Way bending", *RILEM/Proceedings of International Symposium on Ferrocement*, Bergamo, Italy, 1/101-112, July 22-24, 1981.
427. Pollner, E., Gropper, M., and Reinhorn, A. (1974), "Natural Periods of Vibrations of Buildings with "Open" Ground Floors", *Proceedings of the Symposium on Test and Observations on Models and Structures and their Behavior versus Time*", RILEM, Udine, Italy, Sept., 1974, Paper# 3.

Go to List of Contents

M(N)CEER REPORTS

428. Reinhorn, A.M., Sivaselvan, M.V., Winkelmann K, and Yuksel, E. (2010), "IDARC3D Version 3.0 - Three Dimensional Dynamic Analysis of Structures with Protective Systems", *Report MCEER-10-00xx*, MCEER/SUNY/Buffalo (*in review*)
429. Oikonomou, K. Constantinou, M. C., Reinhorn A.M. and Kempner, L. Jr. (2016), "Seismic Isolation of High Voltage Electrical Power Transformers", *MCEER Technical Report MCEER-16-0006* University at Buffalo – the State University of New York 714 pages
430. Ryu K.P. and Reinhorn A.M. (2016), "Real-time Control of Shake Tables for Nonlinear Hysteretic Systems", *MCEER Technical Report MCEER-15-0004* University at Buffalo – the State University of New York 272 pages
431. N. Attari, M. Symans, S. Nagarajaiah, A.M. Reinhorn, M.C. Constantinou, A.A.Sarlis, D.T.R. Pasala, and D.P. Taylor (2013); "Seismic Protection of Highway Bridges with Negative Stiffness Devices", *MCEER Technical Report MCEER-13-0013* University at Buffalo – the State University of New York 254 pages DOI: 10.13140/RG.2.1.2645.1441
432. A.A. Sarlis, D.T.R. Pasala, M.C. Constantinou, A.M. Reinhorn, S. Nagarajaiah and D.P. Taylor (2013); "Negative Stiffness Device for Seismic Protection of Structures", *MCEER Technical Report MCEER-13-0005* University at Buffalo – the State University of New York 238 pages
433. D.T.R. Pasala, A.A. Sarlis, S. Nagarajaiah, A.M. Reinhorn, M.C. Constantinou and D.P. Taylor (2013); "Seismic Response Control of Structures Using a Novel Adaptive Passive Negative Stiffness Device", *Technical Report MCEER-13-0004* University at Buffalo – the State University of New York 172 pages
434. Koliou, M, Filiatrault, A., Reinhorn A.M., and Oliveto N., (2012), Seismic Protection of Electrical Transformer Bushing Systems by Stiffening Techniques**,** *MCEER Technical Report –MCEER-12-0002*, University at Buffalo – the State University of New Yor
435. Reinhorn A.M., Oikonomou K., Roh H., Schiff A., Kempner L., (2011), "Modeling and Seismic Performance Evaluation of High Voltage Transformers and Bushings", *MCEER Technical Report–MCEER-11-0006*, University at Buffalo – the State University of New York DOI: 10.13140/RG.2.1.3431.5768
436. Reinhorn, A.M.(ed), (2011), "Proceedings of the Workshop on Improving Earthquake Response of Substation Equipment", *MCEER Technical Report–MCEER-11-0003*, University at Buffalo – the State University of New York, DOI: 10.13140/RG.2.1.2383.0001
437. Reinhorn A.M., Filiatrault, A., Muhammad F., Oliveto N., Oikonomou K and Koliou, M, (2011), "Evaluation of Transformer Bushings: Current and Recommended Practice" *MCEER Task Report–MCEER-TR-11-01*, University at Buffalo – the State University of New York
438. Cimellaro, G.P., Christovasilis I.P., Reinhorn A.M., DeStefano A., and Kirova T., (2010), "L`Aquila Earthquake of April 6th, 2009 in Italy: Rebuilding a Resilient City to Multiple Hazard", *MCEER Technical Report –MCEER-10-0010*, University at Buffalo – the State University of New York
439. Renschler, C.S., Frazier, A.E., Arendt, L.A. Cimellaro, G.P., Reinhorn, A.M., and Bruneau, M. (2010). "Framework for Defining and Measuring Resilience at the Community Scale: The PEOPLES Resilience Framework", *MCEER Technical Report–MCEER-10-0006*, University at Buffalo – the State University of New York

440. Renschler, C.S., Frazier, A.E., Arendt, L.A. Cimellaro, G.P., Reinhorn, A.M., and Bruneau, M. (2010). "Framework for Defining and Measuring Resilience at the Community Scale: The PEOPLES Resilience Framework", *Technical Report to Sponsor – NIST GCR 10-930*, U.S. Department of Commerce National Institute of Standards and Technology (NIST), Office of Applied Economics Engineering Laboratory Gaithersburg, Maryland 20899-8603
441. Reinhorn, A.M. and Oikonomou K (2010), "Modeling of Transformers: 500kV and 230kV Cover Amplifications", *MCEER Task Report –MCEER-TR-10-01*, University at Buffalo – the State University of New York
442. Reinhorn, A.M. Ryu K.P. and Maddaloni G., (2010), "Modeling and Seismic Evaluation of Nonstructural Components: Testing Frame for Experimental Evaluation of Suspended Ceiling Systems", *MCEER Technical Report –MCEER-10-0004*, University at Buffalo – the State University of New York DOI: 10.13140/RG.2.1.2928.4723
443. Cimellaro, G.P., Fumo C., Reinhorn A.M., Bruneau, M., (2009) "Quantification of Seismic Resilience of Health Care Facilities ", *MCEER Technical Report –MCEER-09-0009*, University at Buffalo – the State University of New York
444. Reinhorn A. M., Roh H., Sivaselvan M., Kunnath S. K., Valles R. E., Madan A., Li C., Lobo R., Park Y. J. (2009), "IDARC 2D Version 7.0: A Program for the Inelastic Damage Analysis of Structures", *MCEER Technical Report- MCEER-09-0006*, University at Buffalo – the State University of New York, DOI: 10.13140/RG.2.1.2518.8724
445. Benassi, A. and Reinhorn, A.M. (2009), "Modeling of Conductors in Electrical Equipment & Sensitivity Studies", *MCEER Task Report –MCEER-TR-09-01*, University at Buffalo – the State University of New York
446. Retamales, R., Mosqueda, G., Filiatrault, A., and Reinhorn, A.M. (2008). "New Experimental Capabilities and Loading Protocols for Seismic Qualification and Fragility Assessment of Nonstructural Components", *MCEER Technical Report –MCEER-08-0026*, University at Buffalo – the State University of New York
447. Schachter M and Reinhorn, A. M., (2007), " Three-Dimensional Modeling of Inelastic Buckling in Frame Structures ", *Report MCEER-07-0016*, MCEER/SUNY/Buffalo
448. Cimellaro, G. P., Reinhorn, A. M., Bruneau, M., and Rutenberg, A. (2006), "Multidimensional Fragility of Structures: Formulation and Evaluation.", *Report MCEER-06-0002*, MCEER/SUNY/Buffalo
449. Badillo, H., Whittaker, A. S. Reinhorn, A. M. and Cimellaro, G.P. (2006), "Seismic Fragility of Suspended Ceiling Systems", *Report MCEER-06-0001*, MCEER/SUNY/Buffalo
450. M.Bruneau, A. Filiatrault, G. Lee, T. O'Rourke, A. Reinhorn, M. Shinozuka and K. Tierney (2005); "White Paper on the SDR Grand Challenges for Disaster Reduction", *Special Technical Report MCEER-05-SP09*; 12/5/2006; MCEER/SUNY/Buffalo 40 pages;
451. Tsopelas, P.C., Roussis, P.C., Constantinou, M.C., Buchanan, R. and Reinhorn, A.M. (2005), "3D-BASIS-ME-MB: Computer Program for Nonlinear Dynamic Analysis of Seismically Isolated Structures", *Report MCEER-05-0009*, MCEER/SUNY/Buffalo 2005, DOI: 10.13140/RG.2.2.11183.33448
452. Kusumastuti, D.K., Reinhorn A.M. and Rutenberg A. (2005), "A Versatile Experimentation Model for Study of Structures Near Collapse Applied to Seismic Evaluation of Irregular Structures" *Report MCEER-05-0002*, MCEER/SUNY/Buffalo
453. Sivaselvan, M. and Reinhorn, A.M. (2004) "Nonlinear Structural Analysis towards Collapse Simulation: A Dynamical Systems Approach" *Report MCEER-05-0004*, MCEER/SUNY/Buffalo 2004.
454. M. Bruneau, A. Whittaker, A.Reinhorn (2002); "Engineering and Organizational Issues Related to the World Trade Center Terrorist Attack: Overview of Damage to Buildings Near Ground Zero", *Special Technical Report MCEER-02-SP02*; 3/2/2002; 46 pages;
455. Sivaselvan, M. and Reinhorn, A.M. (1999) "Hysteretic Models for Cyclic Behavior of Deteriorating Inelastic Structures", *Report MCEER-99-0018*, MCEER/SUNY/Buffalo 1999.
456. Reinhorn, A.M. Simeonov, V., Mylonakis, G., and Reichman, Y, (1998) "IDARC-BRIDGE, A Computational Platform for Seismic Damage Assessment of Bridge Structures", *Report MCEER-98-0011*, MCEER/SUNY/Buffalo 1998
457. Valles, R.E. and Reinhorn, A.M.,(1997) "Evaluation, Prevention and Mitigation of Pounding Effects in Building Structures," *Report NCEER-97-0001*, NCEER/SUNY/Buffalo 1997
458. Reinhorn, A.M. Madan, A., Valles, R.E., Reichmann, Y., and Mander, J.B. (1995), "Modeling of Masonry Infill Panels for Structural Analysis", *Technical Report NCEER-95-0018*, NCEER/SUNY/Buffalo.
459. Valles R.E., Reinhorn A.M., Kunnath S.K., Li C., and Madan A., (1996), "IDARC2D Version 4.0 - A computer Program for the Inelastic Drainage Analysis of Buildings", *Technical Report NCEER-96-0010*, National Center for Earthquake Engineering Research, SUNY/Buffalo

460. Reinhorn, A.M., and Li C.,(1995) "Experimental and Analytical Investigation of Seismic Retrofit of Structures with Supplemental Damping, Part III Viscous Walls," *Technical Report NCEER-95-0013*, National Center for Earthquake Engineering Research, SUNY/Buffalo
461. Li. C. and Reinhorn, A.M. (1995) "Experimental and Analytical Investigation of Seismic Retrofit of Structures with Supplemental Damping, Part II Friction Damping Devices," *Technical Report NCEER-95-0009*, National Center for Earthquake Engineering Research, SUNY/Buffalo
462. Reinhorn, A.M., Li C., and Constantinou, M.C. (1995) "Experimental and Analytical Investigation of Seismic Retrofit of Structures with Supplemental Damping, Part I Fluid Viscous Damping devices", *Technical Report NCEER-95-0001*, National Center for Earthquake Engineering Research, SUNY/Buffalo
463. Naeim, F. Dijulio, R., K. Benuska, K., Reinhorn, A.M., Li, C., "Evaluation of Seismic Performance of an 11 Story Frame Building During the 1994 Northridge Earthquake." *Technical Report NCEER-95-0006*, National Center for Earthquake Engineering Research, SUNY/Buffalo (unpublished, private distribution only)
464. Reinhorn, A.M., Nagarajaiah, S, Constantinou, M.C., and Tsopelas, P.C, "3D-BASIS-TABS: Version 2.0 Computer Program for Nonlinear Dynamic Analysis of Three Dimensional Base Isolated Structures," *Technical Report NCEER-94-0018*, National Center for Earthquake Engineering Research, SUNY/BUFFALO, 1994 DOI: 10.13140/RG.2.2.12861.05607
465. Tsopelas, P.C., Constantinou, M.C., and Reinhorn, A.M. (1994) "3D-BASIS-ME: Computer Program for Nonlinear Dynamic Analysis Seismically Isolated Single and Multiple Structures and Liquid Storage Tanks," *Technical Report NCEER-94-0010*, National Center for Earthquake Engineering Research, SUNY/Buffalo, 1994
466. "The Northridge, California Earthquake of January 17, 1994: General Reconnaissance Report," - Section on Buildings, *Technical Report NCEER-94-0005*, National Center for Earthquake Engineering Research, SUNY/Buffalo, 1994
467. Nagarajaiah, S., Li, C., Reinhorn, A.M., and Constantinou, M.C. (1993) "3D-BASIS-TABS-Computer Program for Nonlinear Dynamic Analysis of Three Dimensional Base Isolated Structures," *Technical Report NCEER-93-0011*, National Center for Earthquake Engineering Research, SUNY/Buffalo, 1993
468. Lobo, R.F., Bracci, J.M., Shen, K.L., Reinhorn, A.M., and Soong, T.T., (1993), "Inelastic Response of R/C Structures with Viscoelastic Braces," *Technical Report NCEER-93-0006*, National Center for Earthquake Engineering Research, SUNY/Buffalo
469. Bracci, J.M., Reinhorn, A.M., Mander, J.B.,(1992), "Evaluation of Seismic Retrofit of Reinforced Concrete Frame Structures: Part II - Experimental Performance and Analytical Study of Retrofitted Structural Model," *Technical Report NCEER-92-0031*, National Center for Earthquake Engineering Research, SUNY/Buffalo, 1992, DOI: 10.13140/RG.2.1.3600.2169
470. Choudhuri, A., Mander, J.B., and Reinhorn, A.M., (1992), "Evaluation of Seismic Retrofit of Reinforced Concrete Frame Structures: Part I - Experimental Performance and Analytical Study of Retrofitted Subassemblies," *Technical Report NCEER-92-0030*, National Center for Earthquake Engineering Research, SUNY/Buffalo, 1992
471. Bracci, J.M., Mander, J.B. and Reinhorn, A.M., (1992), "Seismic Resistance of Reinforced Concrete Frame Structures Designed Only for Gravity Loads: Part III - Experimental Performance and Analytical Study of Structural Model, " Technical Report *NCEER-92-0029*, National Center for Earthquake Engineering Research, SUNY/Buffalo, 1992, DOI: 10.13140/RG.2.1.1290.0726
472. Aycardi, L.E., Mander, J.B., and Reinhorn, A.M., (1992), "Seismic Resistance of Reinforced Concrete Frame Structures Designed Only for Gravity Loads: Part II - Experimental Performance of Subassemblies," Technical Report NCEER-92-0028, National Center for Earthquake Engineering Research, SUNY/Buffalo, 1992
473. Bracci, J.M., Reinhorn, A.M., Mander, J. B.,(1992) "Seismic Resistance of Reinforced Concrete Frame Structures Designed Only for Gravity Loads: Part I - Design and Properties of a One-Third Scale Model Structure," Technical Report NCEER-92-0027, National Center for Earthquake Engineering Research, SUNY/Buffalo, 1992
474. Kunnath, S. K., Reinhorn, A.M., and Lobo, R.F. (1992), "IDARC Version 3.0: Inelastic Damage Analysis of Reinforced Concrete Structures," Technical Report NCEER-92-0022, National Center for Earthquake Engineering Research, SUNY/Buffalo, 1992
475. Reinhorn, A.M., Soong, T.T., Lin, R.C., Riley, M.A., Wang, Y.P., Aizawa, S., and Higashino, M., (1992) "Active Bracing System: A Full Scale Implementation of Active Control," Technical Report NCEER- 92-0020, National Center for Earthquake Engineering Research, SUNY/Buffalo, 1992, DOI: 10.13140/RG.2.1.2469.7207
476. Hoffmann, G.W., Kunnath, S.K., Mander, J.B., and Reinhorn, A.M. (1992)., "Gravity-Load-Designed Reinforced Concrete Buildings: Seismic Evaluation of Existing Construction and Detailing Strategies for

Improved Seismic Resistance," Technical Report NCEER-92-0016, National Center for Earthquake Engineering Research, SUNY/Buffalo, 1992

477. Demetriades, G.F., Constantinou, M.C., and Reinhorn, A.M (1992), "Study of Wire Rope Systems for Seismic Protection of Equipment in Buildings," Technical Report NCEER-92-0012, National Center for Earthquake Engineering Research, SUNY/Buffalo, 1992
478. Nagarajaiah, S., Reinhorn, A.M., and Constantinou, M.C., (1992), "Experimental and Analytical Study of Sliding Base Isolated Structures with Uplift Restraint", Report No. NCEER-92-XXXX, National Center for Earthquake Engineering Research, State University of New York at Buffalo, New York (unpublished – private distribution only)
479. Constantinou, M.C., Kartoum,A., Reinhorn, A.M., and Bradford, P., "Experimental and Theoretical Study of a Sliding Isolation System for Bridges," Technical Report NCEER-91-0027, National Center for Earthquake Engineering Research, SUNY/Buffalo, 1991
480. Tsopelas, P., Nagarajaiah, S., Constantinou, M.C. and Reinhorn, A.M., "3-D Basis-M: Nonlinear Dynamic Analysis of Multiple Building Base Isolated Structures", Report No. NCEER-91-0014, National Center for Earthquake Engineering Research, State University of New York, Buffalo, New York, 1991
481. Nagarajaiah, S., Reinhorn, A.M., Constantinou, M.C. "3D-BASIS: Nonlinear Dynamic Analysis of Three Dimensional Base Isolated Structures - Part II", Report NCEER-91-0005, National Center for Earthquake Engineering Research, State University of New York, Buffalo, New York, 1991 DOI: 10.13140/RG.2.1.2142.0404
482. Mokha, A., Constantinou, M.C. and Reinhorn, A.M., (1990), "Experimental and Analytical Study of Earthquake Response of a Sliding Isolation System with a Spherical Surface", Report NCEER-90-0020, NCEER/SUNY/Buffalo, 1990
483. Constantinou, M.C., Mokha, A. and Reinhorn, A.M. (1990), "Experimental and Analytical Study of a Combined Sliding Disc Bearing and Helical Steel Spring Isolation System", Report NCEER-90-0019, NCEER/SUNY/Buffalo, 1990
484. Manolis, G.D., Juhn, G., Constantinou, M.C. and Reinhorn, A.M. (1990), "Secondary Systems Within Base-Isolated Structures Part I: Experimental Investigation", Report NCEER-90-0013, NCEER/SUNY/Buffalo, 1990
485. Reinhorn, A.M. and Riley, M., (1989), "Analysis of Similitude Considerations and Seismic Response of Plastic Fluid Storage Tanks", *Report NCEER-89-xxxx*, NCEER/SUNY/Buffalo (unpublished – private distribution)
486. Bracci, J.M., Reinhorn, A.M., Mander, J.B., and Kunnath, S.K., (1989), "Deterministic Model for Seismic Damage Evaluation of Reinforced Concrete Structures", Report NCEER-89-0033, NCEER/SUNY/Buffalo, 1989
487. Reinhorn, A.M., Soong, T.T., Lin, R.C., Wang, Y.P., Fukao, Y., Abe, H., and Nakai, M. (1989) "1:4 Scale Model Studies of Active Tendons Systems and Active Mass Dampers for Aseismic Protection", Report NCEER-89-0026, NCEER/SUNY/Buffalo, 1989
488. Nagarajaiah, S., Reinhorn, A.M., and Constantinou, M.C., (1989), "Nonlinear Dynamic Analysis of Three-Dimensional Base Isolated Structures (3D-BASIS)", Report NCEER-89-0019, NCEER/SUNY/Buffalo, 1989
489. Reinhorn, A.M., Dicorso, P., Harper, W. and Dickerson, J., (1989), "Structures with Semi-Rigid Connections", Report NCEER-89-0015, NCEER/SUNY/Buffalo (unpublished – private distribution)
490. Kunnath, S.K. and Reinhorn, A.M., (1989), "Inelastic Analysis of Three-Dimensional R/C Building Structures (IDARC-3D) - Part I - Modeling", Report NCEER-89-0011, NCEER/SUNY/Buffalo, 1989
491. Mokha, A., Constantinou, M.C. and Reinhorn, A.M. (1988), "Teflon Bearings in Aseismic Base Isolations - Experimental Studies and Mathematical Modeling", Report NCEER-88-0038, NCEER/SUNNY/Buffalo, 1988
492. Reinhorn, A.M., Kunnath, S.K. and Panahshahi, N. (1988), "Modeling R/C Building Structures with Flexible Floor Diaphragms (IDARC2)", Report NCEER-88-0035, NCEER/SUNY/Buffalo, 1988
493. Chung, L.L., Lin, R.C., Soong, T.T. and Reinhorn, A.M. (1988), "Experimental Study of Active Control of MDOF Structures Under Seismic Excitations", Report NCEER-88-0025, NCEER/SUNY/Buffalo, 1988
494. Manolis, G.D., Juhn, G. and Reinhorn, A.M. (1988), "Experimental Investigation of Primary - Secondary System Interaction", Report NCEER-88-0019, NCEER/SUNY/Buffalo, 1988
495. Reinhorn, A.M., Seidel, M.I., Kunnath, S.K. and Park, Y.J. (1988), "Damage Assessment of Reinforced Concrete Structures in Eastern United States", Report NCEER-88-0016, NCEER/SUNY/Buffalo, 1988
496. Reinhorn, A.M., Park, Y.J., Saldana, W.L. and Wang, T.C., (1988), "Evaluation of Seismic Response of Plastic Fluid Storage Tanks", *Report NCEER-88-xxxx*, NCEER/SUNY/Buffalo, (unpublished – private distribution)

497. Pantelic, J. and Reinhorn, A.M. (1987), "Report on The Whittier Narrows, California, Earthquake of October 1, 1987", Report NCEER-87-0026 (PB88-188115/AS), NCEER/SUNY/Buffalo, 1987
498. Park, Y.J., Reinhorn, A., Kunnath, S.K. (1987), "IDARC - Inelastic Damage Analysis of Reinforced Concrete Wall Frame Structures", *Report NCEER-87-0008*, (PB88-134325/AS), NCEER/SUNY/Buffalo, 1987
499. Lin, R.C., Soong, T.T. and Reinhorn, A. (1987), "Experimental Evaluation of Instantaneous Optimal Algorithms for Structural Control", *Report, NCEER-87-0002*, (PB88-134341/AS), NCEER/SUNY/Buffalo, 1987

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MISCELLANEOUS TECHNICAL REPORTS

500. Reinhorn, A.M. Ryu, K.P. and Pitman M., (2010), "Seismic Test-Qualification of ABB 345 kV Condenser Bushing", Structural Engineering and Earthquake Simulation Laboratory Report, *CSEE-SEESL-2010-19*, for ABB Inc. Alamo, TN
501. Reinhorn, A.M. Ryu, K.P. and Pitman M., (2010), "Seismic Test-Qualification of ABB 196 kV Condenser Bushing", Structural Engineering and Earthquake Simulation Laboratory Report, *CSEE-SEESL-2010-18*, for ABB Inc. Alamo, TN
502. Reinhorn, A.M. Ryu, K.P. and Pitman M., (2010), "Seismic Qualification Testing of Pascor 345 kV Disconnect Switch", Structural Engineering and Earthquake Simulation Laboratory Report, *CSEE-SEESL-2010-09*, for Pacific Air Switch Corporation, Forest Grove, OR
503. Reinhorn, A.M., Rosenfeld, J.C. and Roh, H., (2010), "Qualification Testing of Dampers for Renovation of State of CA Office Bldgs #8&#9", Structural Engineering and Earthquake Simulation Laboratory Report, *CSEE-SEESL-2010-01*, for California - General Services Administation
504. Renschler, C.S., Frazier, A.E., Arendt, L.A. Cimellaro, G.P., Reinhorn, A.M., and Bruneau, M. (2010). "Framework for Defining and Measuring Resilience at the Community Scale: The PEOPLES Resilience Framework", *NIST Report* GCR 10-930, U.S. Department of Commerce National Institute of Standards and Technology, Office of Applied Economics Engineering Laboratory, Gaithersburg, Maryland
505. Reinhorn, A.M. and Muhammad, F., (2009), "Seismic Test-Qualification Report HVB Circuit Breaker", Structural Engineering and Earthquake Simulation Laboratory Report, *CSEE-SEESL-2009-20*, for HVB AE Power Systems, Inc.
506. Reinhorn, A.M. and Muhammad, F., (2009), "Seismic Test-Qualification Report for AREVA Current Transformer", Structural Engineering and Earthquake Simulation Laboratory Report, *CSEE-SEESL-2009-19*, for AREVA T&D Inc.
507. Reinhorn, A.M., Roh, H., (2009), "Seismic Test-Qualification Report no. 5C4-33-1", Structural Engineering and Earthquake Simulation Laboratory Report, *CSEE-SEESL-2009-18*, for Cooper Power Systems
508. Reinhorn, A.M., Roh, H., (2009), "Seismic Test-Qualification Report no. 5C4-32-1", Structural Engineering and Earthquake Simulation Laboratory Report, *CSEE-SEESL-2009-17*, for Cooper Power Systems
509. Reinhorn, A.M., Roh, H., (2009), "Seismic Test-Qualification Report no. 5C4-31-1", Structural Engineering and Earthquake Simulation Laboratory Report, *CSEE-SEESL-2009-16*, for Cooper Power Systems
510. Reinhorn, A.M., Roh, H., (2009), "Seismic Test-Qualification Report no. 5C4-30-1", Structural Engineering and Earthquake Simulation Laboratory Report, *CSEE-SEESL-2009-15*, for Cooper Power Systems
511. Reinhorn, A.M., Roh, H., (2009), "Seismic Test-Qualification Report no. 5C4-29-1", Structural Engineering and Earthquake Simulation Laboratory Report, *CSEE-SEESL-2009-14*, for Cooper Power Systems
512. Reinhorn,A., Cimellaro,G., Roh,H, D.,K, Pitman, M., (2009), "Seismic Qualification Testing of Electrical Hollow Composite Post Insulators (Manufacturer N)", Structural Engineering and Earthquake Simulation Laboratory Report, *CSEE-SEESL-2009-07*, for Bonneville Power Authority
513. Reinhorn,A., Cimellaro,G., Roh,H, D.,K, Pitman, M, (2009), "Seismic Qualification Testing of Electrical Hollow Composite Post Insulators (Manufacturer M)", Structural Engineering and Earthquake Simulation Laboratory Report, *CSEE-SEESL-2009-06*, for Bonneville Power Authority
514. Roh, H., Reinhorn, A.M., and Pitman, M., (2009), "Seismic Qualification Testing of Suspended Ceiling Systems: System P7 of Chic Met Corp", Structural Engineering and Earthquake Simulation Laboratory Report, *CSEE-SEESL-2009-04*, for Chicago Metallic Corporation
515. Roh, H., Reinhorn, A.M., and Pitman, M., (2009), "Seismic Qualification Testing of Suspended Ceiling Systems: System O7 of Chic Met Corp", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2009-03, for Chicago Metallic Corporation
516. Roh, H., Reinhorn, A.M., and Pitman, M., (2009), "Seismic Qualification Testing of Suspended Ceiling Systems: System N7 of Chic Met Corp", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2009-02, for Chicago Metallic Corporation

517. Roh, H., Reinhorn, A.M., and Pitman, M., (2009), "Seismic Qualification Testing of Suspended Ceiling Systems: System M7 of Chic Met Corp", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2009-01, for Chicago Metallic Corporation
518. Roh, H., Reinhorn, A.M., and Pitman, M., (2008), "Seismic Qualification Testing of Suspended Ceiling Systems: System D8 of Chic Met Corp", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2008-15, for Chicago Metallic Corporation
519. Roh, H., Reinhorn, A.M., and Pitman, M., (2008), "Seismic Qualification Testing of Suspended Ceiling Systems: System C8 of Chic Met Corp", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2008-14, for Chicago Metallic Corporation
520. Roh, H., Reinhorn, A.M., and Pitman, M., (2008), "Seismic Qualification Testing of Suspended Ceiling Systems: System B8 of Chic Met Corp", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2008-12, for Chicago Metallic Corporation
521. Roh, H., Reinhorn, A.M., and Pitman, M., (2008), "Seismic Qualification Testing of Suspended Ceiling Systems: System A8 of Chic Met Corp", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2008-10, for Chicago Metallic Corporation
522. Roh, H., Reinhorn, A.M., and Pitman, M., (2008), "Seismic Qualification Testing of Suspended Ceiling Systems: System G8 of Chic Met Corp", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2008-09, for Chicago Metallic Corporation
523. Roh, H., Reinhorn, A.M., and Pitman, M., (2008), "Seismic Qualification Testing of Suspended Ceiling Systems: System F8 of Chic Met Corp", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2008-08, for Chicago Metallic Corporation
524. Roh, H., Reinhorn, A.M., and Pitman, M., (2008), "Seismic Qualification Testing of Suspended Ceiling Systems: System E8 of Chic Met Corp", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2008-07, for Chicago Metallic Corporation
525. Roh, H. and Reinhorn, A.M., (2008), "Qualification Testing of Dmpers for Renov of St of CA's Office Bldgs #8/9", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2008-04, for California - General Services Administation
526. Reinhorn, A.M. and Kong, D., (2008), "Experimental Evaluation of Earthquake Alert™ Devices", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2008-03, for EQ Technologies, Inc.
527. Lavan, O,, Cimellaro, G.P., Reinhorn, A.M., and Pitman, M, (2007), "Seismic Qualification Testing of Suspended Ceiling Sys: L7", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2007-22, for Chicago Metallic Corp
528. Lavan, O,, Cimellaro, G.P., Reinhorn, A.M., and Pitman, M, (2007), "Seismic Qualification Testing of Suspended Ceiling Sys: K7", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2007-21, for Chicago Metallic Corp
529. Lavan, O,, Cimellaro, G.P., Reinhorn, A.M., and Pitman, M, (2007), "Seismic Qualification Testing of Suspended Ceiling Sys: J7", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2007-20, for Chicago Metallic Corp
530. Lavan, O,, Cimellaro, G.P., Reinhorn, A.M., and Pitman, M, (2007), "Seismic Qualification Testing of Suspended Ceiling Sys: I7", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2007-19, for Chicago Metallic Corp
531. Lavan, O,, Cimellaro, G.P., Reinhorn, A.M., and Pitman, M, (2007), "Seismic Qualification Testing of Suspended Ceiling Sys: H7", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2007-18, for Chicago Metallic Corp
532. Lavan, O,, Cimellaro, G.P., Reinhorn, A.M., and Pitman, M, (2007), "Seismic Qualification Testing of Suspended Ceiling Sys: G7,", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2007-17, for Chicago Metallic Corp
533. Lavan, O,, Cimellaro, G.P., Reinhorn, A.M., and Pitman, M, (2007), "Seismic Qualification Testing of Suspended Ceiling Sys: F7", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2007-16, for Chicago Metallic Corp
534. Lavan, O,, Cimellaro, G.P., Reinhorn, A.M., and Pitman, M, (2007), "Seismic Qualification Testing of Suspended Ceiling Sys: E7", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2007-15, for Chicago Metallic Corp
535. Lavan, O,, Cimellaro, G.P., Reinhorn, A.M., and Pitman, M, (2007), "Seismic Qualification Testing of Suspended Ceiling Sys: D7", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2007-14, for Chicago Metallic Corp

536. Lavan, O,, Cimellaro, G.P., Reinhorn, A.M., and Pitman, M, (2007), "Seismic Qualification Testing of Suspended Ceiling Sys: C7", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2007-13, for Chicago Metallic Corp
537. Lavan, O,, Cimellaro, G.P., Reinhorn, A.M., and Pitman, M, (2007), "Seismic Qualification Testing of Suspended Ceiling Sys: B7", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2007-12, for Chicago Metallic Corp
538. Lavan, O,, Cimellaro, G.P., Reinhorn, A.M., and Pitman, M, (2007), "Seismic Qualification Testing of Suspended Ceiling Sys: A7", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2007-11, for Chicago Metallic Corp
539. Reinhorn, A.M., Kong, D. and Kim, W., (2007), "Seismic Qualification Testing of Surge Arresters", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2007-09, for MCEER-California Utilities Consortium
540. Reinhorn, A.M., Kong, D. and Kim, W., (2007), "Seismic Qualification Testing of Potential Transformers", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2007-08, for MCEER-California Utilities Consortium
541. Lavan, O,, Cimellaro, G.P., Reinhorn, A.M., and Pitman, M, (2007), "Seismic Qualification Testing of Suspended Ceiling Systems", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2007-06, for Chicago Metallic Corp
542. Kong, D. and Reinhorn, A., (2007), "Qualification Testing Report for Jarrett Structures Damper ... Additional Energy", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2007-02, for Jarret Structures Inc.
543. Kong, D. and Reinhorn, A., (2007), "Qualification Testing Report for Jarrett Struct Damper P/N:ASR1500-300AG", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2007-01, for Jarret Structures Inc.
544. Sivaselvan, S.M., Lavan, O., Dargush, G., Reinhorn, A.M., Kurino, H., Yoshikawa, K., Hyodo, Y., Fukuda, R., Sato, K., 2007, "Investigation of Factors Leading to Progressive Collapse of Structures: Toward Analysis of Full System Failure of Structures", *Final Report, Kajima-CUREE Joint Research Program*, CUREE, October 30. 2007, 170 p
545. Reinhorn, A.M. and Pitman, M., (2006), "Seismic Test-Qualification Report No. 5C4-26-1, Polymer Housed VariSTAR ..", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2006-24, for Cooper Power Systems
546. Reinhorn, A.M. and Pitman, M., (2006), "Seismic Test-Qualification Report No. 5C4-25-1, Polymer Housed VariSTAR ..", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2006-23, for Cooper Power Systems
547. Reinhorn, A.M. and Pitman, M., (2006), "Seismic Test-Qualification Report No. 5C4-24-1, Polymer Housed VariSTAR ..", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2006-22, for Cooper Power Systems
548. Reinhorn, A.M. and Pitman, M., (2006), "Seismic Test-Qualification Report No. 5C4-23-1, Polymer Housed VariSTAR ..", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2006-21, for Cooper Power Systems
549. Reinhorn, A.M. and Pitman, M., (2006), "Seismic Test-Qualification Report No. 5C4-22-1, Polymer Housed VariSTAR ..", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2006-20, for Cooper Power Systems
550. Lavan, O., Reinhorn, A.M., Shao, X., and Pitman, M., (2006), "Seismic Qualification Testing of Suspd Ceiling Sys: Sys C (all Sequences)", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2006-18, for Chicago Metallic Corp.
551. Lavan, O., Reinhorn, A.M., Shao, X., and Pitman, M., (2006), "Seismic Qualification Testing of Suspended Ceiling Systems: System I", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2006-16, for Chicago Metallic Corp.
552. Lavan, O., Reinhorn, A.M., Shao, X., and Pitman, M., (2006), "Seismic Qualification Testing of Suspended Ceiling Systems: System H", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2006-15, for Chicago Metallic Corp.
553. Lavan, O., Reinhorn, A.M., Shao, X., and Pitman, M., (2006), "Seismic Qualification Testing of Suspended Ceiling Systems: System G", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2006-14, for Chicago Metallic Corp.
554. Lavan, O., Reinhorn, A.M., Shao, X., and Pitman, M., (2006), "Seismic Qualification Testing of Suspended Ceiling Systems: System F", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2006-13, for Chicago Metallic Corp.

555. Lavan, O., Reinhorn, A.M., Shao, X., and Pitman, M., (2006), "Seismic Qualification Testing of Suspended Ceiling Systems: System E", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2006-12, for Chicago Metallic Corp.
556. Lavan, O., Reinhorn, A.M., Shao, X., and Pitman, M., (2006), "Seismic Qualification Testing of Suspended Ceiling Systems: System D", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2006-11, for Chicago Metallic Corp.
557. Lavan, O., Reinhorn, A.M., Shao, X., and Pitman, M., (2006), "Seismic Qualification Testing of Suspended Ceiling Systems: System C", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2006-10, for Chicago Metallic Corp.
558. Lavan, O., Reinhorn, A.M., Shao, X., and Pitman, M., (2006), "Seismic Qualification Testing of Suspended Ceiling Systems: System B", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2006-09, for Chicago Metallic Corp.
559. Lavan, O., Reinhorn, A.M., Shao, X., and Pitman, M., (2006), "Seismic Qualification Testing of Suspended Ceiling Systems: System A", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2006-08, for Chicago Metallic Corp.
560. Lavan, O., Reinhorn, A.M., Shao, X., and Pitman, M., (2006), "Seismic Qualification Testing of Suspended Ceiling Systems-A", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2006-06, for Chicago Metallic Corp.
561. Gulec, C.K., Whittaker, A. and Reinhorn, A.M., (2006), "Seismic Qualification Testing of Ceiling Systems, Part IX", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2006-02, for Armstrong World Industries, Inc.
562. Pitman, M., Shao, X., Reinhorn, A., (2006), "Seismic Qualification of Emerson Extended Reserve Battery Enclosure", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2006-01, for Emerson Engineering
563. Pitman, M., Shao, X., Goodwin, E., Doyle, K., Reinhorn, A., (2005), "Seismic Qualification of Emerson Single Bay Power Backup Sys", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2005-02, for Emerson Engineering Testing Lab
564. Gulec, C.K., Whittaker, A. and Reinhorn, A.M., (2005), "Seismic Qualification Testing of Ceiling Systems, Part VIII", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2005-06, for Armstrong World Industries, Inc.
565. Schachter-Adaros, M., Kong, D. and Reinhorn, A.M., (2005), "Displacement calculation from measured accelerations - integration in the frequency domain", UB/CSEE Report, University at Buffalo, October, 2005.
566. Cyr, R., Whittaker, A.S., and Reinhorn, A.M., (2004), "Seismic Qualification of Suspended Ceiling Systems, Vol. 7", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2004-04, for Armstrong World Industries, Inc.
567. Aref, A., Bruneau, M., Constantinou, M., Filiatrault, A., Lee, G., Reinhorn, A., Whittaker, A. (2004), "Seismic Response Modification of Structural and Non-Structural Systems and Components in Acute Care Facilities", *MCEER / Research Progress and Accomplishments Volume* 2004, 95-121,
568. Constantinou M C., Dargush G F., Lee G. C, Reinhorn A. M and. Whittaker A. S (2000-2001), "Analysis and Design of Buildings with Added Energy Dissipation Systems", *MCEER/ Research Progress and Accomplishments Volume*, 103-124.
569. Repp, J., Whittaker, A.S., and Reinhorn, A.M., (2003), "Performance of Suspended Ceiling Systems for Blast-type Loading", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2003-05, for Nat. Inst. of Stds &Technology
570. Repp, J., Whittaker, A.S., and Reinhorn, A.M., (2003), "Seismic Qualification of Suspended Ceiling Systems, Vol. 7", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2003-04, for Armstrong World Industries, Inc.
571. Repp, J., Whittaker, A.S., and Reinhorn, A.M., (2003), "Seismic Qualification of Suspended Ceiling Systems, Vol. 6", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2003-03, for Armstrong World Industries, Inc.
572. Repp, J., A.S., and Reinhorn, A.M.,, (2003), "Seismic Qualfication of Suspended Ceiling Systems, Vol. 5", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2003-02, for Armstrong World Industries, Inc.
573. Badillo, H., Whittaker, A.S., and Reinhorn, A.M., (2003), "Seismic Qualification of Suspended Ceiling Systems, Vol. 4", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2003-01, for Armstrong World Industries, Inc

574. Bruneau, M., Reinhorn, A.M., Aref, A., Billington, S.L., Constantinou, M.C., Lee, G.C., and Whittaker, A.S. (2003), "Advanced Technologies for Response Modification of Hospitals", *MCEER / Research Progress and Accomplishments* Volume 2003, 103-124
575. Badillo, H., Whittaker, A.S., and Reinhorn, A.M. (2002), "Seismic Qualification of Suspended Ceiling Systems, Vol. 3", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2002-03, for Armstrong World Industries, Inc
576. Kusumastuti, D., Badillo, H., Reinhorn, A.M. and Whittaker, A.S., (2002), "Seismic Qualification of Suspended Ceiling Systems, Vol. 2", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2002-02, for Armstrong World Industries, Inc
577. Badillo, H., Kusumastuti, D., Reinhorn, A.M. and Whittaker, A.S., (2002), "Seismic Qualification of Suspended Ceiling Systems, Vol. 1", Structural Engineering and Earthquake Simulation Laboratory Report, CSEE-SEESL-2002-01, for Armstrong World Industries, Inc
578. Vian D., Sivaselvan M, Bruneau M. and Reinhorn A.M. (2001), "Analysis, Testing and Initial Recommendations on Collapse Limit States of Frames", MCEER / Research Progress and Accomplishments Volume, 73-85.
579. Constantinou M C, Dargush, G F. Lee G.C (Coordinating Author). Reinhorn A. M and Whittaker A. S. (2001), "Analysis, Testing and Initial Recommendations on Collapse Limit States of Frames", MCEER / Research Progress and Accomplishments Volume, 73-85.
580. Reinhorn AM., Ahmad S and Sternberg E. (2000), "Graduate Professional Education in Earthquake Engineering: An Integrated Approach", MCEER / Research Progress and Accomplishments Volume, 131-136.
581. Shinozuka, M, Grigoriu M,. Ingraffea A R, Billington S L., Feenstra, P Soong T T., Reinhorn A M. and Maragakis E. (2000), "Development of Fragility Information for Structures and Nonstructural Components", MCEER / Research Progress and Accomplishments Volume 15-32.
582. Reinhorn, A.M., Constantinou M. and Nagarajaiah S. (1999), "Benchmark Models for Experimental Calibration of Seismic Fragility of Buildings" , MCEER / Research Progress and Accomplishments Volume , 1-6
583. Colombo, A., Sivaselvan M. and Reinhorn A.M (1998)., "Proposed Damage Evaluation Measure based on Strength Degradation", UB Report , Proposal for PhD Candidacy of first Author – University of Liege, Belgium
584. Naeim, F., K., Skliros, Reinhorn, A.M. , and Sivaselvan, M.V.(1998), "Effects of Hysteretic Deterioration Characteristics on the Seismic Response of Moment Resisting Steel Structures", Report on Task 5.4.4 of System Performance Investigation of SAC Joint Venture, JAMA Report Number 98/8428.58, John Martin & Associates Inc., Nov., 1998
585. Reinhorn, A.M., Pekcan, G., and Pitman, M., "Experimental Study of "EQ System" Devices - Part II (Earthquake Warning Devices), Shaking Table Test Report, Report No. AMR96-0002, November 1996.
586. Reinhorn, A.M., Pekcan, G., and Pitman, M., (1996), "Experimental Study of "EQ Systems" Prototypes (Earthquake Warning Devices), Shaking Table Test Report, Report No. AMR96-0001, January 1996.
587. Naeim, F., Dijulio, R., Benuska, K., Reinhorn, A.M. , and Li, Chen (1995) "Evaluation of Seismic Performance of an 11 Story Steel Moment Frame Building During the 1994 Northridge Earthquake," Technical Report SAC 95-04, Part 2, December 1995, (6-1)-(6-112).
588. Reinhorn, A.M., and Madan (1995), A., "Evaluation of TYFO-W Fiber Wrap System for In-Plane Strengthening of Masonry Walls,-Part II" Report No. AMR-95-0002, Dept. Of Civil Engineering, State University of New York, Buffalo, August 1995.
589. Reinhorn, A.M., and Madan, A.(1995), "Evaluation of TYFO-W Fiber Wrap System for Out-of-Plane Strengthening of Masonry Walls-Part I," Report No. AMR-95-0001, Dept. Of Civil Engineering, State University of New York, Buffalo, March, 1995.
590. Reinhorn, A.M., Constantinou M. and Nagarajaiah S. (1994), "3D-BASIS: Computer Program Series for Nonlinear Dynamic Analysis of Three-Dimensional Base Isolated Structures" , MCEER / Research Progress and Accomplishments Volume 1994, 95-121
591. Reinhorn, A.M. and Madan, A., "Structural Properties of Thermalock™ Concrete Masonry Walls," Preliminary Test Report Submitted to U.S. Dept. Of Energy, Report No. 94-AMR-03, Dept of Civil Engineering, State University of New York, Buffalo, August 1994
592. Reinhorn, A.M. and Madan, A., "Structural Properties of Thermalock™ Concrete Masonry Walls," Preliminary Test Report, Report No. 94-AMR-02, Dept of Civil Engineering, State University of New York, Buffalo, July 1994
593. Reinhorn, A.M., and Madan, A., "Structural Properties of Thermalock™ Concrete Masonry Walls," Report to Thermalock Products, Inc., CIE 94-AMR-02/03, August 1994

594. Panahshahi, N., Kunnath, S., and Reinhorn, A.M. "Behavior of RC Buildings with Flexible Floor Diaphragms," Research Bulletin Board - SEAONC, BB 93-3, June 1993
595. Reinhorn, A.M. "Feasibility Study for Development of Vibration Experimental Facility at Princeton University," Report to Princeton University, CIE 92-015, November 1992
596. Reinhorn, A.M., and Soong, T.T., "Harumi Project - Structural Linkage Feasibility Study - Phase I, Report to LeMessurier and Assoc., CIE 92-011, March 1992
597. Reinhorn, A.M., Kunnath, S.K., and Valles, R., "Seismic Evaluation of the Tishman Building 10 Lafayette Square Buffalo, Phase I," Report to National Fuel Gas Distribution Corporation, March 1991
598. Kunnath, S.K., Reinhorn, A.M**.** and Lobo, R., "Enhancement to the Computer Code IDARC for Evaluation of Bridge Structures", Report to NIST, January 1991
599. Soong, T.T. and Reinhorn, A.M., "Feasibility Study For TMD/AMD System For Tall Building Structure", Report to Walter P. Moore and Assoc., ACG-024, December 1990
600. Constantinou, M.C., Reinhorn, A.M. And Mokha, A., "A displacement Control Device For Seismically Isolated Bridges: Part 2: Testing of Displacement Control Device", Report to Watson Bowman Acme Corporation and the National Science Foundation, Dept. of Civil Eng., #90/02, Buffalo, July 1990
601. Constantinou, M.C., Reinhorn, A.M. and Xian Gu, "A Displacement Control Device For Seismically Isolated Bridges, Part 1: Development and Testing of Frictional Device", Report to Watson Bowman Acme Corporation and the National Science Foundation, Dept. of Civil Eng., #89/02, Buffalo, July, 1989*
602. Reinhorn, A., "Seismic Qualification for PCA9-CCVT-230kV Capacitor Bank", Report to Westinghouse Electric Co., Dept. of Civ. Eng., #89/01, SUNY/Buffalo, March, 1989
603. Reinhorn, A., "Damping Testing for 500kV DC Capacitor Bank", Report to Westinghouse Electric Co., Dept. of Civ. Eng., SUNY/Buffalo, April 1988
604. Reinhorn, A., and Budhu, M., "Reduction of Strain Gage Data for Epcot Monorail Beams", Report to W. Disney Co., Dept. of Civil Eng., Buffalo, March 1987
605. Reinhorn, A., and Manolis, G., "Present State of Knowledge on Structural Control", Report UB/CIE-85/02, State University of NY at Buffalo, March 1985*
606. Reinhorn, A**.**, "Active Control of Building Structures - A New Approach", Engineering Progress of FEAS & NYSPE, Vol. 4, No. 2, pp 17-19, Jan 1985
607. Reinhorn, A., "Seismic Qualification Analysis of UF_6 Cylinder 72", Report Dept. of Civil Engineering, SUNY Buffalo, Oct., 1983
608. Reinhorn, A., "SUNY/Buffalo Shaking Table - Capabilities and Outlook", Report Dept. of Civil Engineering, SUNY Buffalo, Sept., 1983
609. Reinhorn, A. and Prucz, Z., "Investigation of Ambient Vibrations of MDS Health Group Headquarters", Report SUNY/Buffalo, Aug. 1982
610. Manolis, G.D. and Reinhorn, A**.**, "Finite Element Analysis of Heavy Duty Thread Protector", SUNY Buffalo, Oct. 1981
611. Reinhorn, A. and Zederbaum, E., "Earthquake Response of Bridge Structures (part 1)", Building Research Station, Technion, I.I.T., Haifa, Israel Oct. 1979
612. Reinhorn, A. and Gluck, J., "Torsional Coupling in Aseismic Design of Building Structures", Report No. 256, Fac. of Civ. Eng., Technion, I.I.T., Haifa, Israel, June 1979.*
613. Rutenberg, A., Gluck, J. and Reinhorn**, A.**, "On the Dynamic Properties of Asymmetric Wall-Frame Structures", Report No. 229, Fac. of Civ. Eng., Technion, I.I.T., June 1977.*
614. Reinhorn, A., Rutenberg, A. and Gluck, J., "Dynamic Torsional Coupling in Asymmetric Building Structures", Report No. 226, Fac. of Civ. Eng., Technion, I.I.T., Feb. 1977.*
615. Gluck, J. and Reinhorn, A. (1975), "Dynamic Eccentricity of Static Equivalent Earthquake Loads in Asymmetric Building Structures". Unpublished Report (private distribution only), Fac. of Civ. Eng. Technion, I.I.T., Haifa, Israel, Sept. 1975

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LECTURES

INVITED LECTURES

1. Technion - Israel Institute of Technology, "*Real Time Control of Shake Tables for Nonlinear Hysteretic Systems"*, Seminar Series, Faculty of Civil Engineering, May 21, 2017, (Invited Speaker)
2. UB/EERI - Seminar Lecture, "*Passive Control of Structures using Apparent Weakening and Damping for Seismic Protection*", Friday, March 9, 2017, (Invited Speaker)
3. University of Florence, Department of Architectural and Structural Engineering, "*Introduction to disaster management of communities using resilience based design*", Florence, Italy, "*Control of Seismic Response of Structures using Protective Devices*", Engineering Seminar and Workshop, April 1, 2016 (Invited Speaker)
4. Technion - Israel Institute of Technology, "*Adaptive Passive Stiffness Shaping using NSD and Apparent Weakening for Seismic Protection"*, Seminar Series, Faculty of Civil Engineering, March 20, 2016, (Invited Speaker)
5. Association of Engineers and Architects-Catania Province, Italy and the Department of Engineering and Architecture of University of Catania, Italy, "*Adaptive Passive Stiffness Shaping and Apparent Weakening for Seismic Protection*", Engineering Seminar, May 30, 2014 (Invited Speaker)
6. Association of Engineers and Architects-Catania Province, Italy and the Department of Engineering and Architecture of University of Catania, Italy, "*Control of Seismic Response of Structures Using Protective Devices*", Engineering Seminar, May 23, 2014 (Invited Speaker)
7. EERI / NEES Webinar, "*Adaptive Passive Stiffness Shaping using NSD and Apparent Weakening for Seismic Protection*", March 17, 2014 (Invited Group Speakers)
8. *FIB* Symposium of International Federation of Concrete, "*Seismic Analyses of Damageable Concrete Structures*", Tel-Aviv, Israel, April 22-24, 2013, (Plenary Keynote Invited Speaker)
9. UB/EERI/T.T.Soong Distinguished Seminar Lecture, "*Control of Inelastic Structures by Weakening and Damping*", Friday, April 5, 2013, (Invited Speaker)
10. The Metropolitan Autonomous University of Mexico City, Department of Civil and Environmental Engineering, "*Control of Inelastic Structures by Weakening and Damping*", Seminar Lecture, February 22, 2013, (Invited Speaker)
11. The Mexican Society of Structural Engineering, Inc. and the Engineering Institute at National Autonomous University of Mexico, "*Control of Inelastic Structures by Weakening and Damping*", Engineering Seminar, February 21, 2013, (Invited Speaker)
12. Rice University, "*Control of Inelastic Structures by Weakening and Damping"*, Seminar Lecture, Department of Civil and Environmental Engineering, November 2, 2012, (Invited Speaker)
13. University of Houston, "*Control of Inelastic Structures by Weakening and Damping"*, Distinguished Lecture Series, Department of Civil and Environmental Engineering, November 2, 2012, (Invited Speaker)
14. ASCE/SEI Invited Plenary Lecture "*Control of Inelastic Structures by Weakening and Damping"*, Keynote Lecture at the 20th Analysis and Computation Specialty Track, March 27, 2012, (Invited Speaker)
15. Technion - Israel Institute of Technology, "*Weakening and Damping for Control of Seismic Response of Structures",* Seminar Series, Faculty of Civil Engineering, January 5, 2011, (Invited Speaker)
16. University of Notre Dame, Seminar Series, Department of Civil and Geological Engineering, "*Integral Design of Controlled Resilient Structures*", September 15, 2010, (Invited Speaker)
17. Public Safety Canada, Ottawa, Ontario, "*Conceptual Aspects of Disaster Resilience - A Framework for Defining and Measuring Disaster Resilience at the Community Scale*", June 22, 2010, (Invited Speaker)
18. National Institute of Standards and Technology (NIST) – "*Quantification of Seismic Resilience – Extending to Multiple Hazards*", Washington, April12, 2009, (Invited Speaker)
19. UB/SUNY/Structural Engineering lecture series Fall Semester 2008 "*Optimal Design of Controlled Structures*", Monday, October 20, 2008, (Invited Speaker)
20. United States Japan Panel on Wind and Seismic Effects – 40-th Joint Meeting (UJNR), "*Developing Resilient high-Rise Buildings Using Optimally Controlled Structural Systems"*, Washington, May 19-21, 2008, (Invited Speaker)
21. Technion - Israel Institute of Technology, "*Corotational formulation for analysis of frame structures with material and geometric nonlinearities"*, Seminar Series, Faculty of Civil Engineering, November 25, 2007, (Invited Speaker)
22. Technion - Israel Institute of Technology, "*Hybrid Simulation of Structural Systems, - A Unified Approach to Combined Physical and Computational Simulations"***,** Seminar Series, Faculty of Civil Engineering, November 11, 2007, (Invited Speaker)

23. Rice University, "*Hybrid Simulation of Structural Systems, - A Unified Approach to Combined Physical and Computational Simulations"*, Seminar Series, Department of Civil Engineering, October 29, 2007, (Invited Speaker)
24. Texas A&M University, "*Hybrid Simulation of Structural Systems, - A Unified Approach to Combined Physical and Computational Simulations***",** Seminar Series, Department of Civil Engineering, October 26, 2007, (Invited Speaker)
25. 12th US-Japan Workshop / ATC-15-11 Seminar, "*Earthquake Simulator Testing and Evaluation of Suspended Ceiling System"*, Kauai, HI, October 12, 2007, (*Invited Lecture and Paper),
26. Kajima Corp, Tokyo-Japan, "*Analytical Issues In Progressive Collapse of Structures: Applications in Structural and Earthquake Engineering,* , October 2, 2007, (Invited Speaker)
27. The National Academies – Washington, DC- 20th Disaster Roundtable: Science, Technology and Decision Support Tools, "*Moving Toward Multi-hazard Research at MCEER"*, June 28, 2007, (Invited Speaker)
28. ECCOMAS (2007) Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, , Rethymno, Crete, "*Mixed Lagrangian Formulation in Analysis of Collapse of Structures*", June15, 2007, (Keynote lecture)
29. Technion - Israel Institute of Technology, "Hamiltonian-Lagrangian Approach to Collapse Analysis of Structures", Seminar Series, Faculty of Civil Engineering, December 25, 2005, (Invited Speaker)
30. Kajima Corp, Tokyo-Japan, "Analytical Issues In Progressive Collapse of Structures: *Applications in Structural and Earthquake Engineering,* September 7, 2005
31. Technion - Israel Institute of Technology, "Seismic Resilience: A comprehensive engineering-economical-societal and political approach " Seminar Series, Faculty of Civil Engineering, (Invited Speaker), April 28, 2005
32. MCEER Seminar at the California Office of State health Planning and Development (OSHPD), Engineers and Researchers (50), Sacramento, February 25, 2005
33. 13th World Conference on Earthquake Engineering, Vancouver, Canada, August 2004, Bruneau, M., Reinhorn, A., Constantinou, M., Whittaker, A., Thevanayagam, S., "The UB-NEES Versatile High Performance Testing Facility", - CD-ROM paper #1577
34. Workshop on "Performance-Based Seismic Design (PBSD) -- Concepts and Implementation", Bled Slovenia, June 28-July 1, 2004, Bruneau M. and Reinhorn, A. M. – paper - "Seismic Resilience of Communities – Conceptualization and Operationalization"
35. Workshop on "Performance-Based Seismic Design (PBSD) -- Concepts and Implementation", Bled Slovenia, June 28-July 1, 2004 - Reinhorn, A. M. Sivaselvan, M.V, Liang Z, and Shao X. –paper - "Real-time Dynamic Hybrid Testing of Structural Systems",
36. 14th Israeli Congress of Civil Engineers / 9th Israeli Congress of Earthquake Engineering, "Seismic Retrofit Through Weakening and Damping", (Keynote Speaker), Tel-Aviv, Israel, November 17-19, 2003.
37. Buffalo Historical Society**:** "Technical Issues in Construction of Tall Structures – Historical Perspective", (Invited Lecture), Buffalo, NY October 23, 2002
38. ECO Leader Workshop, "Real Time Dynamic Hybrid Testing System – New Testing Technology" (Invited Lecture), Oxford UK, Sept 2002
39. 2002 Northeastern University , "Protective Systems for Structural Vibration Control", (Invited Lecture)**,** May 13, 2002
40. Eighth Chilean Conference on Seismology and Earthquake Engineering - "Modern Methods of Seismic Protection - Base Isolations and More…**"** (Invited Key Note Lecture), April 26-28, 2002
41. NYSPE, Buffalo: "Forensic engineering at ground zero", **(**Invited lecture), NY, November 2001
42. UB SEAS Dean's Council: Bruneau, M., Reinhorn A., and Whittaker, A. "Structural Engineering Reconnaissance at Ground Zero", Buffalo, NY, October 2001
43. American Society of Civil Engineers, Buffalo Chapter: Bruneau, M., Reinhorn, A., and Whittaker, A. "Structural Engineering Reconnaissance at Ground Zero", (Invited Lecture), Buffalo, NY, October 2001
44. Cornell University, "Analysis and Design Toward Performance Based Engineering" (Invited Lecture)**,** April 8, 2001
45. Army Corp of Engineers / MCEER Short Course on Structural Assessment after Earthquakes - Building Structural Damage during Earthquakes (Invited Lecture), University at Buffalo, July 26.2001
46. Georgia Institute of Technology, "Seismic retrofit of Structures Designed for Gravity Loads Only - Conventional and Advanced Technologies ", (Invited Lecture), February, 7, 2001
47. National Science Foundation, "Teleparticipation- new approach in experimentation", February 22, 2001, (Invited Lecture)
48. Joint Research Center of European Community, "Spectral Evaluation of Seismic Fragility of Structures", (Invited Lecture) Ispra, Italy, Oct. 12, 1999.
49. University of Pavia, "Structural Control for Seismic Mitigation", (Invited Lecture Series), Pavia, Italy, Oct. 6 - Oct 14, 1999.

50. Israeli Association of Engineers And Architects, “Modern Methods of Seismic Protection of Structures- Structural Control”, (Invited Lectures Series), Tel-Aviv, Israel, Nov-Dec, 1999
51. Technical University of Civil Engineering Bucuresti, “Spectral Evaluation of Seismic Fragility of Structures”, (Invited Lecture – in Romanian), Bucharest, Romania, July 2, 1999.
52. 12th Israeli Congress of Civil Engineers / 7th Israeli Congress of Earthquake Engineering, "Towards performance based design in new seismic standards", (Keynote Speaker), Tel-Aviv, Israel**,** April 28-29, 1999.
53. Technion - Israel Institute f Technology, “Fragility of structures as measure of seismic performance ” Seminar Series, Faculty of Civil Engineering, (Invited Speaker), April 26, 1999
54. MCEER / Tri Centers Oversight Committee Meeting, "Graduate Earthquake Education - A New Concept" , (Invited Speaker), U/C Berkeley, July 23, 1998
55. EERI / FEMA Workshop on Performance Based Design "State of the art on analyses methods for performance evaluation and design" (Invited Paper and Speaker), San Diego, July 22, 1998
56. US-Italy Workshop on Protective Systems for Bridges, “Sensitivity of Inelastic Seismic Response of Base Isolated Bridges,” (Invited Paper), New York, April 26-28, 1998.
57. ASCE/Civil Engineering Night Meeting, Buffalo, NY, (Invited Speaker) "Future Directions in Civil Engineering Education". April 16,1998
58. EERI 1997 New York Regional Seminar on Seismic Engineering Issues, “R/C Structures in Moderate Seismic Zones- Research, (Invited Speaker), New York, November, 6, 1997
59. “Workshop On Earthquake Engineering - Evaluation, Design And Practice,” (Chaired Session**)** Kefar HaMakabiah, Israel .March 13, 1997,
60. 4th World Congress on Joint Sealing and Bearing Systems For Concrete Structures, (Chaired Session) on Seismic Systems 9/29-10/3 Sacramento, CA., Oct 1996
61. 12TH US-Japan Bridge Engineering Workshop, (UJNR - Panel on Wind and Seismic Effects), “Experimental Study of Ball-In-Cone Isolation System,” (Invited Paper**)**, October 1996.
62. Los Angeles Tall Buildings Structural Design Council/Practicing Engineers, “Inelastic Analysis of Structures,” (Keynote Speaker)**,** May 10, 1996.
63. ASCE/Structures Congress, Chicago, IL, “Fuzzy Sets of Control of Hybrid Systems,” (with M. Riley and R. Subramaniam), April 16, 1996.
64. EERI Annual Meeting/Northridge Testing/Los Angeles, “Influence of Spatial Variation on Bridge Structures,” (Invited Speaker), February 3, 1996.
65. Workshop On Seismic Retrofit of Structures, NIST, Washington “State-of-the-Art on Retrofitting Supplemental Dampers,” (Invited Speaker), June 1995.
66. ACI/Bridge Research Council, Montreal, Canada, “Influence of Spatial Variation of Ground Motion on Bridge Structures,” (Invited Speaker), November 9, 1995.
67. NIST/National Institute for Standards and Technology - Workshop on Seismic Retrofit, “Retrofit of Structures with Supplemental Damping,” (Invited Speaker), June 2, 1995.
68. NYSPE - Buffalo Section, “Active Structural Control”, Professional meeting (Invited Speaker) Dec. 6, 1995
69. Technion - Israel Institute of Technology, “Retrofit of Structures with Supplemental Damping,” Seminar Series, Faculty of Civil Engineering, (Invited Speaker), March 20, 1995.
70. University of Notre Dame, "Design of Supplemental Damping in Seismic Retrofit of Structures," (Invited Speaker), November 18 1994.
71. Center for Infrastructure Research & Development/Tokyo, Japan, "Briefing on Structure Aspects of Northridge Earthquake," (Invited Speaker), March 14 , 1994.
72. ASCE/BUFFALO Section, Buffalo, N.Y., "Overview of January 17, 1994 Northridge Earthquake" (Invited Speaker), February 25, 1994.
73. NCEER/Buffalo, N.Y., "Technical Briefing on Northridge Earthquake," (Invited Speaker), February 11, 1994.
74. Cornell University, "Seismic Retrofit of Reinforced Concrete Structures - Conventional and Innovative Systems," (Invited Speaker), February 3, 1994.
75. Rensselaer Polytechnic Institute, "Active Control of Motion in Building Structures," (Invited Speaker), October 28, 1993.
76. Athens Polytechnic University, Athens, Greece, "Protective Systems in Structures from Base Isolations to Active Control," (Invited Speaker), June 17, 1993.
77. University of Naples, Naples, Italy, "Seismic Retrofit of Gravity Load Designed Structures," (Invited Speaker), June 10, 1993.
78. University of Naples, Naples, Italy, "Protective Systems in Structures from Base Isolations to Active Control," (Invited Speaker), June 4, 1993.
79. University of Rome, (LaSapienza), - Faculty of Engineering - Italy, "Vibration Protective Systems in Structures from Base Isolations to Active Control," (Invited Speaker), May 28, 1993.

80. Swiss Federal Institute of Technology (E.T.H.) - Zurich, Switzerland, "Vibration Protective Systems in Structures from Base Isolations to Active Control," (Invited Speaker), May 25, 1993.
81. Technion/Israel Institute of Technology, Haifa Israel, "Full-Scale Implementation of Active Control," (Invited Speaker), May 5, 1993.
82. McGill University, Montreal, Canada, "Full Scale Implementations of Active Structural Control," (Invited Speaker), May 1992.
83. Technion/Israel Institute of Technology, Haifa Israel, "Seminar Series (3 presentations) on Active Control of Structures toward Applications," (Invited Speaker), May 1991.
84. University of Colorado at Boulder, "Seismic Damage of Reinforced Concrete Structures - Evaluation and Design Issues", (Invited Speaker – Seminar Series), November 15, 1990.
85. ASCE/North Jersey Branch New Jersey Section, Newark, New Jersey, Fall Seminar, 1990, (Invited Speaker) "Seismic Damage and Detailing of Non-Seismically Designed Buildings".
86. National Taiwan University/MTS Corporation, "Modeling of Structures and Scale Model Studies", (Invited Speaker at Workshop/Seminar on Experimental Methods Using Shaking Tables), July 30-31, 1990, Taipei, Taiwan.
87. National Taiwan University/MTS Corporation, "Active Control of Structures", (Invited Speaker at Workshop/Seminar on Experimental Methods Using Shaking Tables), July 30-31, 1990, Taipei, Taiwan.
88. Israel Association for Earthquake Engineering/Israel Association for Civil Engineering, "Design and Retrofit of Buildings Based on Damageability Assessment", Keynote Speaker at Conference on Recent Advances in Earthquake Engineering, February 20, 1990, Ramat Gan, Israel.
89. Cornell University/Structures Seminar, Ithaca, New York, (Invited Speaker), "Seismic Damage Assessment of R/C Structures", October 3, 1989.
90. Technion/Israel Institute of Technology, Haifa Israel, "A New Deterministic Model For Seismic Damage Assessment of R/C Structures", (Invited Speaker), July 2, 1989.
91. Polytechnic University of Catalunia, Barcelona, Spain, "Motion Control of Sliding Base Isolated Structures", International Center of Numerical Methods In Engineering, (Invited Speaker), June 5 , 1989.
92. Polytechnic University of Catalunia, Barcelona, Spain, "Damage Model for R/C Components and Structures. Seismic Damage Assessment of R/C Structures", International Center of Numerical Methods In Engineering, , (Invited Speaker), June 7, 1989.
93. ASCE/Metropolitan Section Monthly Dinner, New York, NY, (Invited Speaker) "Applications of Current Seismic Research on Practical Design.", April 6, 1989 - canceled due to hospitalization.
94. Lehigh University Seminar Lectures, (Invited Speaker), "Active Control of Building Structures", Bethlehem, PA March, 15, 1989.
95. ASCE/Mohawk and Upper Hudson Valley - Seismic Design of Structures Seminar, (Invited Speaker). , Albany, NY, February 2, 1989
96. APWA/American Public Work Association - Annual Spring Meeting, Invited Speaker on "Earthquake Resistant Design". Buffalo May 1-4, 1988,
97. NYSPE/Buffalo Section, - Invited Speaker: "Impact of NCEER on Local and National Industries". Buffalo. NY, September 21, 1987
98. US/P.R. China-Working Group, "Construction in Seismic Areas", (Invited Speaker), "Protective systems for Earthquake Hazard Mitigation". NCEER/SUNY/Buffalo - July 29, 1987
99. US/USSR-Working Group - "Construction in Seismic Areas", (Invited Speaker) "Experimental Studies on R/C Structural Components". NCEER/SUNY/Buffalo - June 2-3, 1987
100. Technion/Civil Engineering Seminar Series, "Active Control and Protective Systems for Seismic Structures", (Invited Speaker). Haifa, Israel, January 11, 1987
101. ASCE-FEAS/Workshop on Micro-computers in Civil Engineering Practice, (Instructor/Speaker) "Microcomputers in Structural Engineering - Hands-On Instruction". Buffalo, NY Jan. 8-9, 1985
102. McMaster University Seminar Lectures, (Invited Speaker) "SUNY/Buffalo Earthquake Simulator - Capabilities and Outlook". Hamilton, Ontario, Canada, April 18, 1984
103. ASCE/Civil Engineering Night Meeting, (Speaker) "Civil Engineering Profession". Buffalo, NY, October 6, 1982
104. ASCE/Buffalo Section Monthly Dinner, (Invited Speaker) "Earthquake Engineering - Experimental Approach". Buffalo, NY, April 13, 1981
105. Technion/Structural Engineering Seminar Series, (Speaker) "Static and Dynamic Torsional Coupling of Structures with Earthquake Excitations". Haifa, Israel, April 18, 1978

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LECTURES IN SEMINARS/CONFERENCES W/O PROCEEDINGS

1. SUNY/Civil Engineering Seminar Series, Buffalo, NY, March 7, 1980 (Speaker) "Dynamic Torsional Coupling in Building Structures".
2. SUNY/Civil Engineering Seminar Series, Buffalo, NY, Feb. 24, 1981 (Speaker) "Experimental Methods in Earthquake Engineering".
3. SUNY/Civil Engineering Seminar Series, Buffalo, NY, September 25, 1981 (Speaker) "Alaskan Earthquake".
4. ASCE/NYSPE - Workshop on Computers in Engineering Practice, Buffalo Convention Center, Buffalo, NY, Nov. 16, 1982 (Speaker) "Use of Micro-computers in Small Civil/Structural Engineering Companies".
5. ASCE/Structures and Computers Committee Meeting, NY, Nov. 27, 1984 (Speaker and Earthquake Simulator Demonstration).
6. ASCE/Structures and Computers Committee Meeting, Buffalo, NY Feb. 26, 1985 (Speaker & Demonstration) "Structural Design Using Lotus 1-2-3 on Microcomputers".
7. SUNY/Civil Engineering Seminar, Buffalo, NY, April 1985 (Speaker) "Active Control of Building Structures".
8. ASCE/Structures and Computers Committee Meeting, Buffalo Nov. 25, 1986 (Speaker): "Active Control of Building Structures during Earthquakes".
9. ASCE/Structures and Computers Committee Meeting, Buffalo, Feb. 3, 1987, (Speaker and Instructor), "Hands-on Design of R/C and P/C Elements Using Spread Sheets".
10. Gao, Q., Park, Y.J. and Reinhorn A., "Deterioration of R.C. Columns Under Earthquake Loading", Abstracts of ASCE/Engineering Mechanics Division Specialty Conference, Buffalo, May 1987.
11. Lin, R.C., Chung, L.L., Soong, T.T. and Reinhorn, A., "Experimental Evaluation of Optimal Control Algorithms for Seismic Applications", Abstracts of ASCE/Engineering Mechanics Division Specialty Conference, Buffalo, May 1987.
12. Reinhorn, A., Park, Y.J., Wen, C., Choudhury, I.A. nd Caspe, M.S., "Experimental Verification of an Earthquake Protection System", Abstracts of ASCE/Engineering Mechanics Division Specialty Conference, Buffalo, May 1987.
13. Kunnath, S.K., Park, Y.J. and Reinhorn, A., "Substructuring Technique for Shaking Table Testing", Abstracts of ASCE/Engineering Mechanics Division Specialty Conference, Buffalo, May 1987.
14. ASCE/Structures and Computers Committee Meeting, Buffalo, Nov. 5, 1987, (Speaker), "Preliminary Reconnaissance Report on Whittier Earthquake (Los Angeles) of Oct. 1, 1987".
15. SUNY/Seminar on Structural Engineering - Research series, Buffalo, NY, Feb. 19, 1988, (Speaker): "Hybrid Systems-Combined Active and Passive Control".
16. Reinhorn, A.M., Panashahi, N., Lu, L.W. And Huang, T.T., "Seismic Response of Building Structures with Flexible Floor Diaphragms", Abstracts of ACI/Annual Convention, Orlando, Fl, March, 1988.
17. Reinhorn, A.M., Park, Y.J. and Kunnath, S.K., "Damageability Assessment of Buildings Using Identified Component Properties", Abstracts of ASCE/Spring Convention, Nashville, May 1988.
18. Niagara Frontier Building Officials Association (NFBOA) "Earthquake Seismic Design in Non-Seismic Areas", Buffalo, NY, January 10, 1990.
19. Reinhorn, A.M., Panahshahi, N., Kunnath, S.K., Lu, L.W., Huang, T.T., and Yu, K., "Seismic Response of a 1:6 Scaled Model Structure With Flexible Floor Diaphragms", ACI/Fall Convention/Recent Studies of Special Concrete Structures, San Diego, November 1989.
20. Kunnath, S.K. And Reinhorn, A.M., and Panahshahi, N., “Computational Modeling of Inelastic Seismic Response of RC Buildings with Inplane Floor Flexibility”. ACI Spring Convention, Boston, March 1991.
21. Reinhorn, A.M. "Damage Control in Seismic Design of Structures", ASCE/Tenth Structures Congress, San Antonio, Texas, April 1992, 930 - 934.
22. Reinhorn, A.M., Soong, T.T., Constantinou, M.C., And Riley, M. (1993), "Seismic Protective Systems - From Base Isolations to Active Control", 17th European Seminar for Young Scientists and Designers in the Field of Earthquake Engineering, Haifa Israel, September 1993.

23. Reinhorn, A.M., "Active Control Overview", Educational Session on Passive & Active Controlled Responses to Seismic Forces (Smart Buildings), ACI 1994 Spring Convention, San Francisco, CA, March 20, 1994.
24. Reinhorn, A.M., "Implication of Spatial Variation of Ground Motion on the Response of I5-I14 Interchange during the Northridge Earthquake", Special Session on Response of Bridges During Northridge Earthquake of 1994., ACI 1995 Fall Convention, Montreal, Canada, Nov. 9, 1995.
25. Reinhorn, A.M.,(2002), "Real Time Dynamic Hybrid Testing System – New Testing technology" – ECO-LEADER Workshop, Oxford UK, Sept 8, 2002
26. Reinhorn. A.M* (2005)., "Seismic Resilience: A comprehensive engineering-economical-societal and political approach " Technion - Israel Institute of Technology,Seminar Series, Faculty of Civil Engineering, (*Invited Speaker), April 28, 2005
27. Reinhorn. A.M*(2005), "Analytical Issues In Progressive Collapse of Structures: Applications in Structural and Earthquake Engineering, , Kajima Corp, Tokyo-Japan, September 7, 2005(*invited lecture)
28. Reinhorn. A.M*(2005)., "Hamiltonian-Lagrangian Approach to Collapse Analysis of Structures", Technion - Israel Institute of Technology, Seminar Series, Faculty of Civil Engineering, *(Invited Speaker), December 25, 2005
29. Reinhorn, A.M.*(2007), "MCEER's "Moving towards Multi-Hazard Research-Disaster Resilience Concept Overview", *The National Academies 20th Disaster Round Table Workshop*, 28 June, 2007 (*Invited Lecture)
30. Reinhorn, A.M*., Sivaselvan M.S., Dargush G.F., Lavan O, (2007), "Mixed Lagrangian Formulation in Analysis of Collapse of Structures", *ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering*, 13–16 June 2007, Rethymno, Crete, Greece, paper #1507 (*keynote lecture)
31. Gilani, A. S., Reinhorn A M*., and Glasgow, R.B (2007), "Earthquake Simulator Testing and Evaluation of Suspended Ceiling System", *Proceedings 12th US-Japan Workshop / ATC-15-11 Seminar* (*Invited Lecture and Paper), Kauai, HI

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CITATIONS IN POPULAR MEDIA

Source - Research Digest, Winter, 1984
"New Research Will Help Us Cope and Survive."
Buffalo Evening News, Sunday, March 11, 1984
"Three at UB Given Grant to Study Effects of Quakes on Buildings."
Reporter, Vol. 15, No. 22, March 15, 1984
"Three UB Professors Testing Earthquake - Resisting Devices with NSF Grant."
The Buffalo Evening News, Friday, 7, 1986
"UB in Race for $25 Million Quake Grant."
Democrat & Chronicle, April 8, 1987
"Old Bridge Footings Slip?"
Reporter, Vol. 21, No. 3, September 14, 1989
"NCEER Project Protects Buildings Against Earthquake."
The Buffalo Evening News, Monday, Sept. 18, 1989
"Quake Center Pioneers Flex"
Discover Magazine, Vol. V, No. 3, March 1990
"UB Front - Tokyo Tremors"
Popular Science Magazine, Vol. 236, No.2, March 1990, "Dynamic Duo Makes Buildings Stand Still."
New Scientist - Technology Magazine, Aug. 4, 1990
"Buildings That Wobble But Don't Fall Down."
The Voice: Official Publication of United University Professionals, Vol. 18, No. 2, 1990
"SUNY/Buffalo: The Epicenter of Seismic Studies."
Buffalo Evening News, Sunday, March 3, 1991
"Teflon Bridge System Developed, Sold Here Eases Quake Threat."
Business Week, March 1991
"Teflon Bridge System Developed, Sold Here Eases Quake Threat."
Business First, Vol. 7, No. 290, May 6, 1991
"Engineering Education Teacher of the Year by New York State Society of Professional Engineers"
Science, Magazine of American Association for
the Advancement of Science, Vol. 267, Jan. 13, 1995, 176-177
Buffalo Evening News, Sunday, August 2, 1992
"UB Scientists Help Develop Smart Building."
Engineering Times, January 1993
"Smart Bracing System Flexes Muscle's to Control Bad Vibrations in Tall Buildings."
The Construction Specifier, November 1994
"Bracing for the Big One", 134-139
ABC Radio, Los Angeles, January 1994
"Live Interview and Talk Show on Northridge Earthquake"
Engineering News Record, January 31, 1994
"Roads Down and Out for Less Than a Year, Northridge Earthquake."
Buffalo Evening News, February 6, 1994
"Unusual Motion Contributed to Quake Damage."
Spectrum, Vol. 43, No. 66, March 16, 1993
"UB Researchers Explore Northridge Earthquake."
Engineering Times/NSPE, March 1994, 16, (3), 13),
"California Earthquake Prompts PE Action"
Scientific American, April 1994
"Shaking Quakes - Antiquake Building Methods Begin to Emerge From the Lab."
Engineering News Records, July 25, 1994
"Seismic Engineers at a Loss..."
Buffalo Evening News, Sunday, August 7, 1994
"SUNY Research Offers Incentives to Draw of High-Tech Firms in Area."
The New York Times International, Sept. 20, 1994
"Major Tokyo Quake Would Cost 1.2 Trillion Study Says."
SCIENCE, Vol. 267, January 13, 1995 (pp. 176-177)
"Magazine of American Association for the Advancement of Science"

Wall Street Journal, Tuesday, January 17, 1995
"Lessons from Kobe..."
The New York Times International, Jan. 18, 1995 (pp. A13)
"Japanese and U.S. Ways of Structural Engineering Differ."
New Scientist - This Week, January 28, 1995
"Modern Building "'Tough Enough'"
UB News, May 17, 1995
UB is Prime Contractor for $1.4 Million Project to Protect San Diego Building From Earthquake Damage
Engineering News Record, July 1, 1996
Research Center Renewal Due as National Unity is Taking Hold.
Buffalo News, November 17, 1996
Honor Roll Column
Business First of Buffalo, December 9, 1996
People on the Move
Los Angeles Time, April 4, 1997
Quake alarms may buy time in some cases
Reporter, Vol. 32, No. 19, Feb. 8, 2001 - page 1
"UB gets $16.5 million for quake work."
Spectrum Vol. 50 No. 51, Feb 112, 2001 – page 1
"Earthquake Research to Expand w/ NSF Grant"
Buffalo Evening News, Sunday, Feb. 4 2001
"Two grants to enhance UB quake research.

Additional Citations not recorded after 2001

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TEACHING ACTIVITIES

UNDERGRADUATE TEACHING[1]

1. **Descriptive Geometry (Technion) (10)** 1965-1968
   Principles of space geometry, projections, plane and space representation of regular objects, intersections, shading principles, isometry and perspective.
2. **Structural Analysis (Technion) (30)** 1978-1979
   Basic equilibrium under static loads, internal stress resultant distribution, beams, trusses, virtual work methods, influence lines, moment distributions, slope deflection, matrix methods.
3. **Experimental Mechanics (Technion (30)** 1977-1979
   Hands on experiments on material testing (tension, compression, shear), photoelasticity, strain gages, analog computers, structural vibrations.
4. **Design of Structural Systems (Technion) (30)** 1978-1979
   Definition of systems, planar and space tubular structures, shells, folded plates, precast systems, blast protective systems.
5. **Numerical Methods SUNY/Buffalo (EAS 451) (100)** 1980-1984[2]
   Matrix analysis, transformations, eigenvalues, nonlinear equations, numerical integration, differentiation, error analysis, nonlinear differential equations, partial differential equations, curve fitting, introduction to optimization.
6. **Engineering Mechanics (SUNY/Buffalo EAS205 & EAS206) (30)** 1981-1982
   Principles of equilibrium, dynamics, vectorial motion, structural members, stress - strain constitutive laws, stress-strain tensors, transformations, stress resultants introduction to design of simple mechanical components.
7. **Structural Analysis & Design (SUNY/Buffalo CIE323 and CIE324) (30)** 1982-1983
   Basic equilibrium under static loads, internal stress resultant distribution, beams, trusses, virtual work methods, influence lines, moment distributions, slope deflection, matrix methods, basic design of steel and reinforced concrete members, shear and torsion analysis. 2006
8. **Reinforced Concrete Analysis and Design (SUNY/Buffalo CIE429) (55)**[3] 1984-2005
   Design of concrete buildings- sections, beams, slabs, columns, footings including shear, torsion, axial-bending interactions - system approach. Introduction to basic engineering sketching and drafting
9. **Structures Laboratory (SUNY/Buffalo CIE325) (10-80)**‡ 1985-1996
   Experiments or basic material testing and structural members, shear, torsion, indeterminate frames, arches, force measurements, introduction to modern measurement systems --electrical instrumentation, computer data acquisition.
10. **Computer Graphics (SUNY/Buffalo, CIE 460) (10)**‡ 1989-1992
    Basic X-Y plotting, spread-sheet interactive graphics ("QUATRO"), principle of engineering drawing-planes, lines, objects - "In-A-Vision", lettering-text superposition advanced graphics, curves, and curved surfaces ("Grapher"), Analysis of buildings ("Strand"), Basic graphics theory-using, translation, rotations, ("Hoops").
11. **Structural Analysis Advanced (SUNY/Buffalo CIE423)** [6] 2009-2012
    Virtual work methods, influence lines, moment distributions, slope deflection, matrix methods, approximate methods of analysis.

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GRADUATE TEACHING[4]

1. **Advanced Structural Dynamics (Technion) (8)** 1978-1979
   Second course in structural vibrations, nonlinear systems, energy principles Lagrange equations, Laplace and Fourier domain, probabilistic and statistical methods, computer analog simulations, approximate methods, Galerkin, Rayleigh, Ritz, etc.

[1] Numbers in parentheses show approximate class size per semester.
[2] Taught every semester i.e., twice a year.
[3] Courses newly developed or substantially changed.
[4] Numbers in parentheses show approximate class size per semester.

2. **Earthquake Engineering and Structural Dynamics (SUNY/Buffalo CIE619) (15)**‡ 1981-2002, 2009
   Advanced methods in structural dynamics - approximate methods (Rayleigh, Ritz, direct and subspace iterations, transfer matrix), probabilistic approaches and random processes, nonlinear dynamics. Introduction to seismology, ground motion, earthquake simulation, structure response, spectrum approach, concrete and steel structures design, frequency analysis, nondeterministic analysis.
3. **Advanced R/C and Prestress Concrete Design (SUNY/Buffalo CIE525) (15)** 1982-1988
   Analysis and design of prestress concrete (P/C) beams, frames, slabs, limit design of frame structures, ductility and hysteretic behavior. Yield line theories and plastic design of slabs; shells - circular and hypars.
4. **Experimental Mechanics (SUNY/Buffalo CIE616) (5)**‡ 1982-1991
   Hands on experiments on material testing (tension, compression, shear), photoelasticity, strain gages, analog computers, structural vibrations, in depth theory of instrumentation, vibration measurements and processing of vibration data - frequency analysis, filtering etc.
5. **Civil Engineering Seminar (SUNY/Buffalo CIE505B) (15)**‡ 1988-1995.
   Invited speakers in area of structures and geotechnical engineering speak about current topics of research which were partially solved and need discussions and further investigations. Invited lectures from local faculty and graduate students. Invited several speakers from other Universities in U.S. and abroad.
6. **Introduction to Computer Graphics (SUNY/Buffalo CIE501 - Special Topics) (8)**‡ 1988-1990[5]
   Newly developed course presents basic graphic representations using C-programming language, translations, rotations, Civil engineering substructures, beams, columns, footings; plotting in 2-D - 3D structures (Hoops environment); screen oriented interaction; interactive structural analysis (PREPF, STRAND, QUAND, IDARC) - [Developed in association with Professor J. Abel (Cornell Univ.), and Dr. S.K. Kunnath (SUNY/Buffalo)].
7. **Experimental Methods in Structural Engineering (SUNY CIE616 (12 avg)**[6] 1997,2002, 2004, 2007, 2008, 2010, 2011
   New course on experimental methods including design of experiments; scaled models, development and use of electronic instruments, data acquisition systems and advanced data processing.. Two-hour lecture and three-hour lab weekly.
8. **Dynamics of Structures (SUNY/Buffalo, CIE519) (20)** 1991-2001
   Introductory course to dynamics of single and multi-degree-of-freedom systems,
   Frequency domain approaches.

[5] Taught every semester i.e., twice a year.
[6] Courses newly developed or substantially changed.

ADVISEMENT AND SUPERVISORY ACTIVITIES

POST-DOCTORAL FELLOWS AND VISITING SCHOLARS

1.	Park, Y.J.	(1985-1987)	Ph.D., University of Illinois
2.	Panahshahi, N.	(1987-1990)	Ph.D., Cornell University
3.	Kunnath, S.K.	(1989-1991)	Ph.D., SUNY/Buffalo
4.	Lopez-Almansa, F.	(1989)	Prof., Univ. of Barcelona (Spain)
5.	Nagarajaiah, S.	(1990-1992)	Ph.D., SUNY/Buffalo
6.	Lin, R.C.	(1992-1993)	Ph.D., SUNY/Buffalo
7.	Faella, G.	(1993-1994)	Assoc. Prof., Univ. of Naples (Italy)
8.	Spyrakos, C.	(1994)	Assoc. Prof., University of West Virginia
9.	Li, R.	(1994)	Research Engineer, U/C Irvine
10.	Gluck, N.	(1994)	Ph.D., Technion, IIT (Israel)
11.	Valles-Mattox, R.	(1995)	Ph.D.. SUNY/Buffalo
12.	Sanders, D.	(1996)	Assoc. Prof., Univ. of Nevada at Reno
13.	Madan, A.	(1996)	Ph.D. SUNY/Buffalo
14.	Riley, M.	(1996-1997)	Ph.D. SUNY/Buffalo
15.	Mylonakis, G.	(1997-1998)	Ph.D., SUNY/Buffalo
16.	Colombo, Antonella	(1999)	Researcher, JRC/Ispra (Italy)
17.	Viti, Stefania	(2001-2002)	Asst Prof. Univ. of Florence, (Italy)
18.	Sivaselvan M.	(2002-2004)	Ph.D., SUNY/Buffalo
19.	Ribakov,Yuri	(2003)	Asst Prof, Univ of Judea & Samaria (Israel)
20.	Yuksel, Ercan	(2004-2005)	Asst Prof, Univ of Istanbul (Turkey)
21.	Lavan, Oren	(2005-2007)	Ph.D. Technion, IIT (Israel)
22.	Fumo, Cristina	(2007)	PhD Candidate, Univ of Udine (Italy)
23.	Sayed, Ali	(2008)	Assistant Professor, NWFP Univ, (Pakistan)
24.	Nasser, Amjad	(2008)	Assistant Professor, NWFP Univ, (Pakistan)
25.	Madaloni, Giuseppe	(2008)	Assistant Professor, Univ of Naples (Italy)
26.	Roh, Hwasung	(2007-2010)	PhD SUNY/Buffalo
27.	Benassi, Andrea	(2009-2010)	PhD Candidate, Univ of Bologna (Italy)
28.	Ryu, Ki Pung	(2015-2017)	PhD SUNY/Buffalo

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Ph.D. STUDENTS / DISSERTATIONS

PRINCIPAL ADVISER

1. Wen, C.Y., "Vibration Protection of Inelastic Structures by Means of Active Control", Ph.D., Aug 1987
2. Kunnath, Sashi Kumar, "Modeling of Inelastic Response and Seismic Damage of 3D R/C Buildings", Ph.D., Dec 1988.
3. Nagarajaiah, Satish, "Nonlinear Dynamic Analysis of 3D Base Isolated Structures" Ph.D. June 1990.
4. Wang, Yen.P., "Experimental Study of MDOF Structures with Active Control" Ph.D. January 1991.
5. Bracci, Joseph, Ph.D., "Evaluation of Gravity Load Designed Reinforced Concrete Structures" Aug 1992
6. Lobo, Roy, "Inelastic Dynamic Analysis of R/C Structures in Three Dimensions" PhD, May 1994.
7. Subramanian, Ravi, "Application of Fuzzy Sets Theory to Active Control of Systems" Ph.D. Sept 1994
8. Valles-Mattox, Rodolfo, Ph.D., "Evaluation, Prevention and Mitigation of Pounding Effects in Buildings" Jun 1995
9. Li, Chen, Ph.D., "Analytical and Experimental Study of R/C Structures Retrofitted with Damping Devices" Aug. 1995.
10. Riley, Michael, Ph.D., "Experimental Implementation and Design of Hybrid Systems with Actuator - Structure Interaction" Mar 1996
11. Alok Madan, Ph.D., "In-plane Behavior of Masonry Shear Walls with Unbonded Reinforcement" Mar. 1996
12. Reichman, Yossi, Ph.D., "3D Inelastic Analysis of Bridge Systems," April 1996.
13. Simeonov Vassil, PhD, "Seismic Damage in Bridges due Spatial Variation of Ground Motion", Sept 1999
14. Barron-Corvera, Raul, PhD, "Simplified Method for Evaluation of Seismic Fragility", Jan 2000
15. Sivaselvan, Mettupalayam., PhD, "Nonlinear Structural Analysis towards Collapse Simulation – A Dynamical Systems Approach", Dec 2002

16. Kusumastuti, Dyah, PhD, "A Versatile Experimentation Model for Study of Structures near Collapse: Applications to Seismic Evaluation of Irregular Structures", Jan 2005
17. Shao, Xiaoyun PhD, “Unified Control Platform for Real Time Dynamic Hybrid Simulation”, Jan 2007
18. Roh, Hwasung, PhD “Control of Seismic Motion through Weakening and Damping”, Aug 2007
19. Schachter, Macarena, PhD “Structure Three Dimensional Modeling of Inelastic Buckling in Frame Structures”, Aug 2007
20. Cimellaro, Gian-Paolo, PhD, “Improving Seismic Resilience of Structural Systems through Integrated Design of Smart Structures”, Dec 2007
21. Kong, Dohwan, PhD “Evaluation and Protection of High Voltage Electrical Equipment Against Severe Shock and Vibrations”, Sept 2010
22. Mohammad, Fahad, PhD, “Seismic Evaluation and Qualification of Transformer Bushings”, Jan 2013
23. Ray, Tathagata, PhD, "Modeling of Multi-Dimensional Inelastic and Nonlinear Elastic Structural Systems", June 2013
24. Ryu, KiPung, PhD, " Real Time Control of Shake Tables for Nonlinear Hysteretic Systems", Sept 2015

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SECONDARY ADVISER (active supervision)[1]

1. Prucz, Zolan "On Reliability of Active Control of Tension Leg Platforms" Ph.D., June, 1983 (w/ T.T.Soong).
2. Lin, Ru Ci, "Experimental Investigation of Active Structural Control", Ph.D., July, 1987 (w/ T.T.Soong).
3. Chung, Lap Loi, "Analyses and Experiments for Practical Applications of Active Structural Control", Ph.D., July, 1987 (w/ T.T.Soong).
4. Lin, C.C., "On Methods of Damage Assessment", Ph.D., January, 1989 (w/ T.T.Soong).
5. Mokha, A., Ph.D. June 1990 (w/ M.C.Constantinou).
6. Khartoum, Allaoua, Ph.D., December 1991 (w/ M.C.Constantinou).
7. Makris, Nicos, Ph.D., August 1992 (w/ M.C. Constantinou).
8. Small, Edgar Ph.D. expected August 1996 (w/ M. Gaus)
9. Hong, Cao, Ph.D., May 1997 (w/T.T. Soong)
10. Kasalanti, Amarnath., Ph.D., May 1998 (w/ M.C. Constantinou)
11. Chu, S.C PhD, Sept 2001 (w/T.T. Soong)
12. Ahmadizadeh, Mehdi Sept. 2007 (w/G. Mosqueda)
13. Retamale, Rodrigo, Jan. 2008 (w/G. Mosqueda)
14. Pasala, Dharma-Theja, Aug 2012 (w/S Nagarajaiah-Rice U.)
15. Sarlis, Apostolos, Sep 2013 (w/MC Constantinou)
25. Oliveto, Nicholas, Sept 2014, “Development of Mixed Lagrangian Formulation Framework” (w/M Sivaselvan)
26. Koliou, Maria, Sept 2014, (w/A Filiatrault)
27. Oikonomou, Kostis, Sept 2015 (w/MC Constantinou)

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M.S. STUDENTS

PRINCIPAL ADVISER

1. Wang, Chen Cheng, “Experimental Analysis of Behavior of Infilled Planar Frames,” M.S., Feb. 1981
2. Hajj, Nabil, "Shear Behavior of Ferrocement Plates Loaded in Plane by Cyclic Loading - Experimental Study", M.S., May 1981
3. Sentz, Gerald, "Bending Behavior of a Hyperbolic Parabola Shell: An Experimental and Theoretical Investigation", M.S. Thesis. May 1982.
4. Jeffrey, Frank, "Literature Survey of Experimental Methods Performed to Investigate Soil Structure Interaction Caused by Dynamic Excitations", M.S., Jan. 1983.
5. McGreevy, Robert, "Frequency Analysis of Structural Response of a Composite Ribbed Ferrocement Plate", M.S., May 1983.
6. Salamanca, Alberto, "Distribution of Internal Forces in Stiffening Systems of Tall Structures by Iteration", M.S., May 1983.
7. Jia, Zi He. "Retrofit and Strengthening of Buildings for Seismic Resistance, M.S., Jan. 1984.

[1] Students who made their dissertation with complete supervision in major parts of their work.

8. Kunte, Suhas, "Design of Prestressed Box Girder for the Bridge Carrying Vehicular Traffic", M.S., August 1986.
9. Saldana, Wagner, "Pseudo-Dynamic Analysis of Cylindrical Fluid Storage Tanks", M.S. August 1987.
10. Yeh, Len Jo., "Identification of Nonlinear Cyclic Behavior of R/C Frames Using Three Parameters Model", M.S., August 1987.
11. Singer, James, "Base Isolation of a Large Chlorine Tank", M.S., August 1987.
12. Hussein, Syed, "Analysis and Design of Steel Box Girder Bridge with Prestressing", M.S. Dec. 1987.
13. Wang, Chin-Tzu, "Shaking Table Studies of Liquid Storage Tanks", M.S. June 1988.
14. Seidel, Michael "Damage Analysis of R/C Structures in Eastern U.S." M.S. June 1988.
15. Wang, Yen-Po, "Active and Passive Control of Sliding Structures", M.S., Dec. 1988.
16. DiCorso, Paul, "Static and Dynamic Response of Structural Steel Building Frames with Semi-Rigid Connections", M.S., Dec. 1988.
17. Oh, Soon Taek, "Identification of Hysteretic Properties of R/C Shear Walls Subjected to In-plane Loading", M.S. June 1989.
18. Bracci, Joseph, "A Normalized Seismic Damage Index for Building Structures", M.S. June 1989.
19. Fang, Lee, "Experimental Study of Structures with Flexible Floor Diaphragms", M.S. Dec. 1989.
20. Lao, Larry F., "Seismic Response of a Scaled 3 Stories R/C Model", M.S. Dec. 1989.
21. Xiong, Jay J., "Diagnostic Techniques for Vibrating Structures", M.S., Dec. 1989.
22. Gu, Xian, "Experimental Study of Displacement Control Devices for Base Isolations", M.S. May 1990.
23. Riley, Michael, "Experimental Verification of Innovative Devices for Active Control of Equipment and Structures", M.S. January 1992.
24. Hoffmann, Garret "Influence of Design Detailing on Seismic Damage of R/C Buildings", MS January 1992.
25. Vladescu, Adriana, “Push-over Analyses of Inelastic Structures”, MS August. 1995.
26. Lysiak, Matthew, “Retrofit Of Structures with Supplemental Damping - Design Aspects - MS January 1996.
27. Ozer, Cem, “Progressive Collapse Analysis in Strong Ground Motion” - MS May 1997.
28. DeRue, Grant, “Simplified Nonlinear Analysis of Bridge Structures”, MS Sept, 1998
29. Skliros, Costas, “Influence of Deteriorating Parameters on Steel Structures,” MS Jan 1999.
30. Sivaselvan, M, "Hysteretic Models for Cyclic Behavior of Deteriorating Inelastic Structures", MS May, 1999
31. Agrawal, Dinesh, "Web Centric System for Analysis of Structures", MS Dec. 1999
32. Winkelmann, Katherine, “Inelastic Analysis of Structures in Three Dimensions – IDARC3D – an Object Oriented Approach”, MS May 2001
33. Cimellaro, Gian-Paolo, “Multi Dimensional Fragility of Structures”, MS Jan 2005
34. Oikonomou, Kostis, “Modeling and Evaluation of High Voltage Transformers”, MS Jan 2010
35. Ryu, KiPung, “Experimental Facility for Testing of Suspended Ceilings”, MS Jan 2010

Go to List of Sections

SECONDARY ADVISER (active supervision)[2]

1. Lio, Arthur I. "Seismic Resistant Design and Investigation of Infilled Shear Walls with Openings", M.S. 1980 (w/ S.P.Prawel).
2. Agai, Eitan, "An Integrated Software System for Analysis, Design and Drafting for Reinforced Concrete Buildings", M.S. August 1982 (w/G.C.Lee).
3. Chung, Lap Loi, "Optimum Closed-Loop Control of Structures Seismic Excitations", M.S., June 1985 (w/T.T.Soong).

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ADDITIONAL M.S. AND Ph.D. COMMITTEES

F. K. Arwadi	M. S. Project	1981
M. S. Ghashghaiem	M. S. Project	1981
N. Al-Masri	M. S. Project	1981
J. Almozafar	M. S. Project	1982
J. Pitarresi	M. S. Thesis	1983
J. U. Kim	Ph.D. Qualifying	1983
T. Omorodion	Ph.D. Dissertation	1983

[2] Students who made their dissertation with complete supervision in major parts of their work.

A. Gouetibi	M.S. Thesis	1983
K. C. Chang	Ph.D. Qualifying & Dissertation	1984
J. S. Hwang	Ph.D. Qualifying & Dissertation	1984,1987
C. S. Tsai	Ph.D. Qualifying & Dissertation	1984, 1987
H. Liu	Ph.D. Qualifying	1984
Z.H. Jia	Ph.D. Qualifying & Dissertation	1984, 1988
K. Emad	Ph.D. Qualifying	1984
M. L. Liebler	M.S. Thesis	1984
M. Ahmadian	Ph.D. Dissert. (Outside Reader/ME)	1984
B. Bowers	M.S. Project	1985
M. Gao	Ph.D. Qualifying	1985
K. Sigiura	Ph.D. Qualifying	1985
C. Cheng	Ph.D. Qualifying	1987
M. Yae	Ph.D. Dissert. (Outside Reader/ME)	1987
G. Yao	Ph.D. Qualifying	1988
G. Juhn	Ph.D. Qualifying	1988
G. Chen	Ph.D. Qualifying & Dissertation	1989
N. Makris	Ph.D. Qualifying & Dissertation	1990, 1992
J. Sah (Mech. Eng)	Ph.D. Dissert. (Outside Reader)	1990
D. Farhey (Technion - Israel)	Ph.D. Dissert. (Outside Reader	1991
A. Mooty (Univ. of Waterloo)	Ph.D. Dissert. (Outside Reader & Examiner)	1992
P. Tsopelas	Ph.D. Dissertation & Dissertation	1992,1994
M. Symans	Ph.D. Qualifying & Dissertation	1993
V. Gattuli	M.S. Thesis	1994
R. Helgeson	Ph.D. Qualifying	1994
J. Quareshi	Ph.D. Qualifying	1996
M. Gluck (Technion)	Ph.D. Qualifying/Advisor	1993-1996
R. Rana	Ph.D. Qualifying & Dissertation	1998 (exp.)
H. Cao	Ph.D. Qualifying & Dissertation	1997
J Shen	Ph.D. Qualifying &	1998
Y. Kitane	Ph.D. Qualifying &	1998

Stopped Listing Committee Memberships from 1999

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CURRENT POSITIONS OF GRADUATED ADVISES

In parenthesis are the responsibilities for full supervision (1); co-supervision (2); mentor and post-doctoral fellows (3); PhD/PostDocs employment: industry employed in italics; academe employed in italics-bold; MS employment : industry or private practice in normal font

1. Agai, E. (M.S.), President Office Processing Consultants, New York City, NY (2)
2. ***Barron-Corvera, R. (PhD,2000), Professor, Autonomous University of Zacatecas (UAZ), Zacatecas, Mexico (1)***
3. ***Bracci, J.M. (M.S.,Ph.D,1992) Professor, Texas A&M University, College Station, Texas (1)***
4. ***Chung, L.L. (M.S.,PhD,1987), Professor, National Taiwan University, Taiwan (2)***
5. ***Cimellaro, Gian Paolo (M.S.,PhD,2007), Associate Professor, Polytechnic Institute of Torino, Italy (1)***
6. DeRue, Grant (MS), Project Engineer, Good-Kind Engineers, Rochester NY(1)
7. Dicorso, P. (M.S.), Structural Engineer, Hatch & Associates, Buffalo, N.Y. (1)
8. Frank, J. (M.S.), Structural Engineer, Bergman & Associates, Rochester, N.Y. (1)
9. Fumo, C. **(PhD, 2010),** Structural Engineer, Spav Prefabbricati S.p.a, Udine, Italy (2)
10. Jia, Z.H. (M.S.), Structural Engineering Specialist, Pratt & Huth Assoc., Buffalo, N.Y. (1)
11. *Kong, Dohwan **(PhD, 2010)**, Structural Engineer, Skidmore, Owings & Merrill, LLP..,NYC, NY (1)*
12. ***Kunnath, S.K. (PhD,1988), Professor and Chair, University of California at Davis, Davis, CA (1)***
13. ***Kusumastuti, D., Mrs (PhD,2005) Associate Professor, Bandung Institute Technology (ITB), Indonesia (1)***
14. ***Lavan, O., (PostDoc 2005-2008) Associate Professor, Technion-Israel Institute of Technology, Haifa, Israel (3)***
15. *Li, C **(PhD,1995)**, Structural Engineer, Office of State Health Plan. & Develop. (OSHPD), Sacramento, CA (1)*
16. ***Lin, C.C. (PhD,1988), Professor and Dean, National Chung-Hsing University (Taichung) Taiwan (2)***
17. *Lin, R.C. (M.S, Ph.D), Structural Engineer, Seinuk Group, New York, N.Y.(2)*
18. *Lobo R. **(PhD,1994)**, Structural Engineer, Office of State Health Plan. & Develop. (OSHPD), Sacramento, CA (1)*
19. Lysiak, M. (MS) Project Engineer, Barnhart Construction Co., San Diego CA(1)
20. ***Madan A., (PhD,1996), Professor, Indian Institute of Technology, New Delhi, India (1)***
21. McGreevy, R. (M.S.), PE, Project Engineer, Sear & Brown, Rochester, NY. (1)
22. McGreevy, S. – Mrs. (M.S.), Structural Engineer, Bergman & Assoc., Rochester, NY. (2)
23. *Mokha A. **(PhD,1988)**, Vice President, Earthquake Protection Systems, Richmond CA.(2)*
24. ***Mohammad, Fahad (PhD, 2013), Assistant Professor, University of Peshawar, Pakistan** (1)*
25. ***Mylonakis, G. (PostDoc,1997), Professor, University of Patras, Greece (1)***
26. ***Nagarajaiah S. (PhD,1990), Professor and Chair, Rice University, Houston TX. (1)***
27. Ozer, C. (MS) Project Engineer, URS / John Blume., San Francisco, CA (1)
28. ***Panahshahi N.,(PostDoc) Professor, University of Southern Illinois University, Edwardsville, Illinois (3)***
29. *Park Y.J., **(PostDoc, 1987-1989)** Research Scientist, Brookhaven National Labs, Long Island, New York (deceased) (3)*
30. *Prucz, Z. **(Ph.D,1984)**, P.E., Vice President & Assoc. Partner, Modjesky and Masters Engrg, Inc., New Orleans (2)*
31. *Reichman, Y. **(PhD,1996),** Senior Scientist, Israel Electric Power Company, Haifia, Israel (1)*
32. ***Ray, Tathagata (PhD, 2013)**, **Assistant Professor, Dept. of Civil Engineering, University of New Mexico (1)***
33. *Riley M. **(MS, PhD,1996)**, Senior Scientist, National Institute for Standards and Technology (NIST) (1)*
34. ***Roh, Hwasung (PhD,2007), Assistant Professor, Dept. of Civil Engineering, Chonbuk National University, Korea (1)***
35. ***Ryu, KiPung (MS, PhD, 2015), Research Scientist, University at Buffalo, SUNY, NY (1)***
36. Salamanca, A. (M.S.), Senior Design Engineering, Bogota, Columbia (1)
37. Saldana, W. (M.S.), Independent Computer Consultant, Quito, Equador (1)
38. *Schachter-Adaros, Macarena, Mrs. **(PhD,2007)**, Design Engineer, Weidlinger and Assoc., Washington, DC (1)*
39. Seidel, M. (M.S.), P.E., Structural Engineer, Bergman & Associates, Rochester, N.Y. (1)
40. Sentz, G. (M.S.,1982), P.E., Commissioner of Public Works, Erie County, Buffalo, N.Y.(1)
41. ***Shao, Xiao-Yun (PhD,2007), Associate Professor., Western Michigan University, Kalamazoo, MI (1)***
42. *Simeonov, V. K. **(PhD,1999)**, Senior Bridge Engineer, California Department of Transportation, Sacramento CA(1)*
43. Singer, J. (M.S.), Senior Maintenance Engineer, Occidental Chemicals, Niagara Falls, N.Y. (1)
44. ***Sivaselvan, Mettupalayam, (MS, PhD, 2002), Associate Professor, University at Buffalo, SUNY, NY (1)***
45. Skliros, Costas (MS), Project Engineer, John A. Martin and Associates, Los Angeles, CA (1)
46. *Subramaniam, R. **(PhD,1994)**, Research Scientist, INTEL Corp., Santa Clara, CA (1)*
47. *Valles-Mattox R., **(MS, PhD,1995)**, Director General of DITEC Company, Mexico City(1)*
48. ***Vitti, Stefania, (Post-Doc 2001-2002), Assistant Professor. University of Florence, Italy (3)***
49. ***Wang Y.P. (PhD,1991), Professor, National Chiao-Tung University, Hsinchu City, Taiwan (1)***
50. Wang, C.T. (M.S.), Programmer Analyst, Louis Berger & Assoc, Inc. East Orange, New Jersey (1)
51. *Wen, C.Y., Mrs- **(PhD.,1987)**, Chief Branch, California Department of Transportation, CA (1)*
52. Winkelmann, K., Mrs (MS, 1996), (PhD Delft), Pattent Lawyer, Darmstadt Germany (1)

SUMMARY OF ACADEMIC ACTIVITIES

PUBLICATIONS:

1 Honorary Book - by former students
3 Books/Monographs - co-authored,
6 Book chapters,
156 Reviewed papers in *Archival Journals*;
61 Reviewed papers in *Edited Books*;
2 Sections in Codes and Standards;
3 Computer software - international distribution;
199 Papers in Conference Proceedings;
72 (N)MCEER Reports;
116 Miscellaneous Technical Reports

PRESENTATIONS:

>100 Invited Lectures;
166 Conference Lectures with Proceedings;
31 Seminars and Conference Lectures w/o Proceedings;
40 Chaired Sessions in Conferences and Workshops

GRANTS:

60 Research and Other Competitive Grants,	$15,413,012
3 Special Equipment Grants (NEES),	$17,914,175
1 Group Organization Grants,	$106,848,913
2 Major Capital Equipment & Service Grants,	$9,297,824
6 International Travel Grants,	$13,910

COURSES TAUGHT:

9 Graduate
11 Undergraduate

SUPERVISION:

28 Post Doctoral Fellows and Visiting Scholars,
24 (40) Ph.D and 35 MS completed; (in parentheses incl. co-advised)
75+ Ph.D. Committees / Outside Reader

CITATIONS ANALYSIS:

>14,000 times cited according to Google Scholar (h-index 58)