

Resume

Bozidar Stojadinovic, Professor

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Biographical Data

Born **06.10.1962**
Nationality **USA**
Residency **Switzerland**

Education

May 1995 **Ph.D. Civil Engineering** **University of California, Berkeley**
Major: Seismic design and analysis of concrete structures
Minors: Theoretical mechanics, numerical mathematics
Thesis Title: "Seismic Upgrading of Bridge Outrigger Knee Joint Systems"
Thesis advisor: Professor C. R. Thewalt

May 1990 **M.S. Civil Engineering** **Carnegie-Mellon University**
Major: Computer-aided engineering
Thesis Title: "Neural Computing in Civil Engineering"
Thesis advisor: Professor D. R. Rehak

March 1988 **Dipl.Ing. (B.S.) Civil Engineering** **University of Belgrade, Yugoslavia**
Major: Design of concrete structures
Thesis Title: "Cable-Stayed Bridge over River Sava in Belgrade"
Thesis advisor: Professor S. Venecanin

Employment History

2011 – today **Professor**, IBK, D-BAUG, Swiss Federal Institute of Technology (ETH) Zürich
Chair of Structural Dynamics and Earthquake Engineering

2010 – 2010 **Kwang-Hua Visiting Professor**, Department of Civil Engineering, Tongji University, Shanghai, China

2009 – 2011 **Geological Faculty Scientist**, ESD, Lawrence Berkeley National Laboratory

2008 – 2011 **Professor**, CEE Department, University of California Berkeley
Structural Engineering, Mechanics and Materials

2006 – 2009 **Director**, NEES Equipment Site laboratory, University of California Berkeley

2003 – 2008 **Associate Professor**, CEE Department, University of California Berkeley

2000 – 2003 **Assistant Professor**, CEE Department, University of California Berkeley

1995 – 1999 **Assistant Professor**, CEE Department, University of Michigan, Ann Arbor

1990 – 1995 **Graduate Research and Teaching Assistant**, CEE Department, University of California Berkeley

1988 – 1990 **Graduate Research Assistant**, CEE Department, Carnegie-Mellon University

1988 **Research Engineer**, Institute IMS, Belgrade, Yugoslavia

1987 **Graduate Teaching Assistant**, CEE Department, University of Belgrade

Swiss Federal Institute of Technology Zürich

July 2011-present

Professor, Chair of Structural Dynamics and Earthquake Engineering

Performing teaching, research and service duties at the Department of Civil, Environmental and Geomatic Engineering of the Swiss Federal Institute of Technology Zürich (ETHZ). Teaching duties are centered on the core Masters course in Structural Dynamics and two Masters courses in Seismic Design. Research is organized in four areas. The main research concentration is on probabilistic performance-based seismic design of civil structures, specializing in performance-based evaluation and design of highway bridge structures, industrial and nuclear facility structures, and communities using the methodology developed within the Pacific Earthquake Engineering Center at Berkeley. An ongoing research project in this area is the development of a risk-informed performance-based regulatory framework for nuclear facility structures. Second focus is on development of novel structural response modification devices, technologies and theoretical background aimed at improving seismic performance of sensitive infrastructure facilities. A recent research project in this area is on the application of seismic isolation technology to enhance the seismic performance of small modular nuclear power plants. Third concentration area is the behavior and design of steel-concrete composite structural element, structural connections, and structures under seismic, blast and fire loads. A recent project in this research area is on the development of steel-concrete sandwich structural walls for tall buildings and especially hardened facilities. The fourth research area is the application of modern information technologies and computer-controlled devices to improve the science and practice of structural engineering. Ongoing research in this area is on the development of new experimental methods, such as the hybrid simulation technology, to effectively demonstrate the performance of civil structures under earthquake excitation using hybrid models composed of physical and computer-instantiated components. Service duties include those associated with the financial and personnel aspects of the Chair, administrative tasks within the Institute for Structural Engineering (IBK) and the Department, and professional education and technology transfer services. Current service project is design and installation of the hybrid simulation capability at the IBK Structural Testing Laboratory at ETHZ.

University of California Berkeley

January 2000–June 2011

Professor of Civil Engineering

Performing teaching, research and service duties at the Department of Civil and Environmental Engineering of the University of California Berkeley and the Earth Science Division of the Lawrence Berkeley National Laboratory. Teaching assignments include two undergraduate (Structural Engineering and Design of Steel Structures) and three graduate courses (Design of Steel and Composite Structures, Behavior of Steel Structures, and Experimental Methods in Structural Engineering). Recent and ongoing funded research projects address: 1) development of probabilistic performance-based seismic design tools for bridge design and evaluation; 2) introduction of next-generation accelerated bridge construction into California bridge design practice; 3) development of probabilistic risk-reduction factor based evaluation procedures for nuclear facility structures; 4) development of a technical basis for US Nuclear Regulatory Commission review of base isolation technologies for nuclear power plant structures; 5) feasibility study of Generation IV nuclear power plant structural design; 6) development of hybrid simulation experimental methods for examination of seismic behavior of structures using NSF's George E. Brown Jr. Network for Earthquake Engineering Simulation (NEES); 7) design and development of the *nees@berkeley* Equipment Site; 8) experimental evaluation and development of fragility models for reinforced concrete bridge columns, reinforced concrete shear walls, and steel moment connections and steel column base connections; 9) simulation of earthquake motion and response of structures in an urban region; and 10) integration of acquired wireless sensor data into a framework for evaluation of the state of the structure after an extreme seismic or blast event. Department service duties are: Director (from 09/2006 until 10/2009) and Associate Director (09/2004 to 09/2006) of the UC Berkeley NEES Equipment Site, member of the UC Berkeley Seismic Review Committee, UC Berkeley representative of the board of CUREE,

Member of the UC Berkeley College of Engineering SUPERB committee, and EERI Student Chapter Faculty Advisor. Professional consulting services include: Consulting Member of the US Nuclear Regulatory Commission Advisory Committee on Regulatory Safeguards for issues related to structural integrity of nuclear power plant structures; external consultant for structural health monitoring systems for Kinometrics Inc.; peer reviewer for the San Francisco Department of Building Inspection.

University of Michigan, Ann Arbor

July 1995–December 1999

Professor of Civil Engineering

Performed teaching, research and service duties at the Department of Civil and Environmental Engineering. Teaching assignments include two undergraduate courses (Solid and Structural Mechanics, and Reinforced Concrete Design) and three graduate courses (Dynamics of Structures, Finite Element Methods in Solid and Structural Mechanics, and Earthquake Engineering). Completed research projects include: 1) development of Free Flange fully restrained steel beam-to-column connection (FEMA-350); 2) examination of reasons for failure of steel moment connections; 3) investigation of seismic behavior and design options for moment-resistant column bases; and 4) applications of augmented reality for detecting and managing hazard imperceptible by human senses. Developed and conducted a short course on Dynamics of Structures at the Black and Veatch Ann Arbor office. Department service duties were: Associate Director of the Structures Laboratory, ASCE Student Chapter Faculty Advisor and member of the departmental Research Committee.

University of California Berkeley

January 1990–June 1995

Graduate Student

Completed requirements for a Ph.D. degree in Civil Engineering. Worked as a project engineer on a SAC Joint Venture project to experimentally analyze the pre-Northridge style steel beam-to-column connections with Professor E. P. Popov. Performed experimental and theoretical analysis of the behavior of existing and upgraded bridge outriggers with Professor C. R. Thewalt. Wrote ArcS, a program for interactive nonlinear analysis of reinforced concrete cross sections. Worked as a Teaching Assistant for two graduate courses: Nonlinear Structural Analysis and Finite Element Methods.

Carnegie-Mellon University

August 1988–December 1989

Graduate Student

Completed requirements for an M.S. degree in Civil Engineering. Examined potential uses of the neural computing paradigm in engineering design and developed sample applications. Assisted in teaching of an undergraduate Structural Analysis course.

Professional Memberships

Earthquake Engineering Research Institute, Member, 1992

American Concrete Institute, Member, 1993

American Society of Civil Engineers, Associate Member, 1995

American Institute of Steel Construction, Member, 1996

Structural Stability Research Council, Member, 1999

Consortium of Universities for Research in Earthquake Engineering, Board Member, 2000

Network for Earthquake Engineering Simulation, Member, 2000

Awards and Honors

2006 ACI Fellow

2004 ASCE Walter L. Huber Civil Engineering Research Prize

2003 University of California Berkeley Presidential Chair Fellow Award

1999 NSF CAREER Award: Haptic Models of Large Structures

1999 ASCE/CERF CAREER Award

1997 University of Michigan Presidents Initiative Fund Award

1988 ‘‘B. Korolija’’ Prize for Outstanding Scholastic Achievement

1987 University of Belgrade Award for Outstanding Academic Achievement.

Refereed Journal Publications

1. Stojadinovic, B., "A Proposal for a New Cable-Stayed Bridge Near Belgrade," Bulletin of the IMS Institute, July 1988, Vol. 2, No. 1, pp. 47-52, (in Serbian).
2. Thewalt, C. R. and B. Stojadinovic, "A Stable Reinforced Concrete Section Analysis Procedure", ASCE, Journal of Structural Engineering, October 1994, Vol. 120, No. ST10, pp. 3012-3024.
3. Thewalt, C. R. and B. Stojadinovic, "Behavior of Bridge Outrigger Knee Joint Systems," Earthquake Spectra, EERI, August 1995, Vol. 11, No. 3, pp. 477-509.
4. Thewalt, C. R. and B. Stojadinovic, "Evaluation and Upgrading of Outrigger Knee Joints", in Seismic Rehabilitation of Concrete Structures, 1996, ACI Committee 364 & 369 Special Pub. SP-160, paper 14, pp. 275-298.
5. LaFave, J. M., B. Stojadinovic and J. K. Wight, "Lab Experiments for Reinforced Concrete Design Course", Concrete International, American Concrete Institute, December 1996, Vol. 18, No. 12, pp. 59-62.
6. Goel, S. C., B. Stojadinovic and K. H. Lee, "Truss Analogy for Steel Moment Connections", AISC Engineering Journal, 1997, 2nd Quarter, pp. 43-53.
7. Goel, S. C., S. Leelataviwat and B. Stojadinovic, "Steel Moment Frames with Ductile Girder Web Opening", AISC Engineering Journal, 1997, pp. 115-125, 4th Quarter.
8. Khuntia, M., B. Stojadinovic and S. C. Goel, "Shear Strength of Normal and High-Strength Fiber Reinforced Concrete Beams without Stirrups", ACI Structural Journal, March/April 1999, Vol. 96, No. 2, pp. 282-289.
9. Stojadinovic, B. "Design and Seismic Response of Upgraded Outrigger Knee Joints", in ACI Committee 341 Special Publication SP-187 Seismic Response of Concrete Bridges, July 1999, pp.159-184.
10. Leelataviwat S., S. C. Goel and B. Stojadinovic, "Toward Performance-Based Seismic Design of Structures", EERI Earthquake Spectra, August 1999, Vol. 15, No. 3, pp. 435-483.
11. Goel, S. C., K.H. Lee and B. Stojadinovic, "Design of Welded Steel Moment Connections using Truss Analogy", AISC Engineering Journal, January 2000, Vol. 37, No. 1, pp. 31-40.
12. Stojadinovic, B., S. C. Goel, K.H. Lee, A. G. Margarian and J.-H. Choi, "Parametric Tests on Unreinforced Steel Moment Connections", ASCE Journal of Structural Engineering, January 2000, Vol. 126, No. 1, pp. 40-49.
13. Goel, S. C., K.-H. Lee and B. Stojadinovic, "Design of Welded Steel Moment Connections using Truss Analogy", in AISC Steel Tips: Connections for Use in Special Moment Resisting Steel Frames, Roy Becker editor, AISC, July 2000.
14. Khuntia, M. and B. Stojadinovic, "Shear Strength of R/C Members without Transverse Reinforcement", ACI Structural Journal, September-October 2001, Vol. 98, No. 6, pp. 648-656.
15. Mackie, K. and B. Stojadinovic, "Probabilistic Seismic Demand Model for California Highway Bridges", ASCE Journal of Bridge Engineering, November/December 2001, Vol. 6, No. 6, pp. 468-481.
16. Leelataviwat, S., S. C. Goel and B. Stojadinovic, "Energy-based Seismic Design of Structures Using Yield Mechanism and Target Drift", ASCE Journal of Structural Engineering, August 2002, Vol. 128, No. 8, pp. 1046-1054.
17. Choi, J.H., B. Stojadinovic and S. C. Goel, "Design of Free Flange Moment Connection", AISC Engineering Journal, January 2003, Vol.29, No. 1, pp. 25-41.
18. Stojadinovic, B., "Stability and Low-Cycle Fatigue Limits of Moment Connection Rotation Capacity", Engineering Structures, April 2003, Elsevier Science, 25, pp. 691-700.
19. Bruneau, M., M. Engelhardt, A. Filiatrault, S.C. Goel, A. Itani, J. Hajjar, R. Leon, J. Ricles, B. Stojadinovic and C.-M. Uang, "Review of Selected Recent Research on US Seismic Design and Retrofit Strategies for Steel Structures", Progress in Structural Engineering and Materials, John Wiley and Sons, July-September 2005, Vol. 7, No. 3, pp. 103-114.

20. Mackie, K., and B. Stojadinovic, "Post-Earthquake Functionality of Highway Overpass Bridges", *Earthquake Engineering and Structural Dynamics*, John Wiley and Sons, January 2006, Vol. 35, No. 1, pp. 77-93.
21. Stojadinovic, B., G. Mosqueda, and S. A. Mahin, "Event-Driven Control System for Geographically Distributed Hybrid Simulation", *ASCE Journal of Structural Engineering*, January 2006, Vol. 132, No. 1, pp. 68-77.
22. Mackie, K. and B. Stojadinovic, "Fourway: Graphical tool for Performance-Based Earthquake Engineering", *ASCE Journal of Structural Engineering*, August 2006, Vol. 132, No. 8, pp. 1274-1283.
23. Mosqueda, G., B. Stojadinovic and S. A. Mahin, "Real-Time Error Monitoring for Hybrid Simulation, Part I: Methodology and Experimental Verification", *ASCE Journal of Structural Engineering*, August 2007, Vol. 133, No. 8, pp. 1100-1108.
24. Mosqueda, G., B. Stojadinovic and S. A. Mahin, "Real-Time Error Monitoring for Hybrid Simulation, Part II: Structural Response Modification with Errors", *ASCE Journal of Structural Engineering*, August 2007, Vol. 133, No. 8, pp. 1109-1117.
25. Mackie, K. and B. Stojadinovic, "R-factor Parameterized Bridge Damage Fragility Curves", *ASCE Journal of Bridge Engineering*, August 2007, Vol. 12, No. 4, pp. 500-510.
26. Mackie, K. and B. Stojadinovic, "Performance-Based Seismic Bridge Design for Damage and Loss Limit States", *Earthquake Engineering and Structural Dynamics*, John Wiley and Sons, October 2007, Vol. 36, No. 13, pp. 1953-1971.
27. Lee, K. and B. Stojadinovic, "A Plastic Collapse Mechanism for Evaluating Rotation Capacity of Fully-Restrained Steel Moment Connections", *Theoretical and Applied Mechanics*, an International Journal of the Serbian Society of Mechanics, January 2008, Vol. 35, No. 1-3, pp. 191-214.
28. Mosqueda, G., B. Stojadinovic, J. Hanley, M. Sivaselvan and A. Reinhorn, "Hybrid Simulation with Geographically Distributed Substructures", *ASCE Journal of Structural Engineering*, April 2008, Vol. 134, No. 4, pp.535-543.
29. Kim, T., B. Stojadinovic, and A. S. Whittaker, "Seismic Performance of Pre-Northridge Welded Steel Moment Connections to Built-up Box Columns", *ASCE Journal of Structural Engineering*, February 2008, Vol. 134, No. 2, pp. 289-299.
30. Gulec, C. K., A. S. Whittaker and B. Stojadinovic, "Shear Strength of Squat Rectangular Shear Walls", *ACI Structural Journal*, July-August 2008, Vol. 105, No. 4, pp. 488-497.
31. Aviram, A., K. R. Mackie and B. Stojadinovic, "Effect of Abutment Modeling on the Seismic Response of Bridge Structures", *Earthquake Engineering and Engineering Vibration*, December 2008, Vol. 7, No. 4, pp. 395-402.
32. Yang, T. Y, B. Stojadinovic and J.P. Moehle, "Hybrid Simulation of Zipper-Braced Steel Frame under Earthquake Excitation", *Earthquake Engineering and Structural Dynamics*, January 2009, Vol. 38, No. 1, pp. 95-113.
33. Gulec, C. K., A. S. Whittaker and B. Stojadinovic, "Peak Shear Strength of Squat Reinforced Concrete Walls with Boundary Barbells or Flanges", *ACI Structures Journal*, May-June 2009, Vol. 106, No. 3, pp. 368-377.
34. Han, S.-W., K.-H. Moon and B. Stojadinovic, "Design Equations for Moment Strength of RBS-B Connections", *Journal of Constructional Steel Research*, May 2009, Vol. 65, No. 5, pp. 1087-1095.
35. Yang, T. T., J. P. Moehle, B. Stojadinovic and A. Der Kiureghian, "Seismic Performance Evaluation of Facilities: Methodology and Implementation", *ASCE Journal of Structural Engineering*, October 2009, Vol. 135, No. 10, pp. 1146-1154.
36. Mackie, K. R., J.-M. Wong and B. Stojadinovic, "Post-Earthquake Bridge Repair Cost and Repair Time Estimation Methodology", *Earthquake Engineering and Structural Dynamics*, March 2010, Vol. 39, No. 3, pp. 281-301.
37. Aviram, A., K. R. Mackie and B. Stojadinovic, "Nonlinear Modeling of Bridge Structures in California", in P. Silva editor, *ACI SP-271 Structural Concrete in Performance-Based Seismic Design of Bridges*, American Concrete Institute, Farmington Hills, MI, July 2010.

38. Mackie, K. R., J.-M. Wong and B. Stojadinovic, "Performance-Based Post-Earthquake Repair Metrics for RC Bridges", in P. Silva editor, ACI SP-271 Structural Concrete in Performance-Based Seismic Design of Bridges, American Concrete Institute, Farmington Hills, MI, July 2010.
39. Mackie, K. R., J.-M. Wong and B. Stojadinovic, "Bridge Damage and Loss Scenarios Calibrated by Schematic Design and Cost Estimation of Repairs", EERI Earthquake Spectra, Vol.27, No. 4, pp. 1127-1145, EERI, Oakland, CA, November 2011.
40. Han, S.-W., K.-H. Moon, S.-H. Hwang and B. Stojadinovic, "Rotation Capacities of Reduced Beam Section with Bolted Web (RBS-B) Connections", Journal of Constructional Steel Research, Vol. 70, No. 2, pp. 256-263, March 2012.
41. Yang, T. Y., B. Stojadinovic and J. P. Moehle, "Demonstration of a Practical Method for Seismic Performance Assessment of Structural Systems", EERI Earthquake Spectra, EERI, vol. 28, no. 2, pp 811-829, May 2012.
42. Tondini, N., and B. Stojadinovic, "Probabilistic Seismic Demand Analysis of Curved Bridges", Bulletin of Earthquake Engineering, vol.10, no. 5, pp. 1455-1479, October 2012.
43. Aviram, A., B. Stojadinovic, G. J. Parra-Montesinos, "High-Performance Fiber-Reinforced Concrete Bridge Columns under Bidirectional Cyclic Loading", ACI Structures Journal, October 2012, accepted for publication.
44. Scacchioli, A., A. M. Bayen and B. Stojadinovic, "Assessment of Propagation of Uncertainty in Dynamic Response of Structures using Reachability Analysis—Part I: Single-Degree-of-Freedom Systems", ASCE Journal of Engineering Mechanics, March 2012, submitted for publication.
45. Vassiliou, M. F., A. Tsiavos and B. Stojadinovic, "Dynamics of Inelastic Base Isolated Structures Subjected to Analytical Pulse Ground Motions", Earthquake Engineering and Structural Dynamics, September 2012, submitted for publication.
46. Terzic, V. and B. Stojadinovic, "Hybrid Simulation of Bridge Response to Three-Dimensional Earthquake Excitation followed by a Truck Load", ASCE Journal of Structural Engineering, October 2012, submitted for publication.
47. Whyte, C. and B. Stojadinovic, "Effect of Ground Motion Sequence on Behavior of Reinforced Concrete Shear Walls in Hybrid Simulation, ASCE Journal of Structural Engineering, October 2012, submitted for publication.

Refereed Conference Publications

1. Thewalt, C. R. and B. Stojadinovic, "Behavior and Retrofit of Bridge Outrigger Beams," Proceedings, Tenth World Conference on Earthquake Engineering, July 1992, Vol. 9, pp. 5291-5296, Madrid, Spain.
2. Stojadinovic, B. and C. R. Thewalt, "Behavior of R/C Beam and Knee Joint Retrofits," Proceedings, Fifth U.S. National Conference on Earthquake Engineering, July 1994, Vol. 2, pp. 571-578, Chicago, Illinois.
3. Thewalt, C. R. and B. Stojadinovic, "Improving Seismic Performance of Outrigger Knee Joints," Proceedings, IABSE Symposium: Extending the Lifespan of Structures, August 1995, Vol. 73/1, pp. 615-620.
4. Thewalt, C. R. and B. Stojadinovic, "Design of a Seismic Upgrade for Outrigger Knee Joints," Eleventh World Conference on Earthquake Engineering, June 1996, CD-ROM paper no. 1734, Acapulco, Mexico.
5. Stojadinovic, B. and C. R. Thewalt, "Energy Balanced Hysteresis Models," Eleventh World Conference on Earthquake Engineering, June 1996, CD-ROM paper no. 1729, Acapulco, Mexico.
6. Goel, S. C., B. Stojadinovic and K.H. Lee, "A New Theory for Steel Moment Connections," International Conference on Behavior of Steel Structures in Seismic Areas, August 4-7 1997, STESSA'97, F. M. Mazzolani and H. Akiyama, editors, pp. 600-608, Kyoto, Japan.
7. Lee, K.H., S. C. Goel and B. Stojadinovic, "Boundary Effects on Stress Redistribution in Steel Moment Connections," Sixth U.S. National Conference on Earthquake Engineering, June 1998, CD-ROM, Seattle, WA.
8. Leelataviwat, S., S. C. Goel and B. Stojadinovic, "Drift and Yield Mechanism Based Seismic Design of Structures," Sixth U.S. National Conference on Earthquake Engineering, June 1998, CD-ROM, Seattle, WA.
9. Stojadinovic, B., E. Spacone, S. C. Goel and M. Kwon, "Influence of Semi-Rigid Column Base Models on the Response of Steel MRF Buildings," Sixth U.S. National Conference on Earthquake Engineering, June 1998, CD-ROM, Seattle, WA.
10. Fahmy, M., B. Stojadinovic, S. C. Goel and T. Sokol, "Load Path and Deformation Mechanism of Moment-Resisting Steel Column Bases," Sixth U.S. National Conference on Earthquake Engineering, June 1998, CD-ROM, Seattle, WA.
11. Campbell, S. and B. Stojadinovic, "A System for Simultaneous Pseudo-dynamic Testing of Multiple Substructures," Sixth U.S. National Conference on Earthquake Engineering, June 1998, CD-ROM, Seattle, WA.
12. Jankovic, S., B. Stojadinovic and J. K. Wight, "Comparative Non-Linear Analysis of an R/C Frame Building Designed Following the EC8, NZS 3101 and ACI 318 Codes," Eleventh European Conference on Earthquake Engineering, CD-ROM, Paris, France.
13. Fahmy, M., B. Stojadinovic, S. C. Goel and T. Sokol, "Seismic Behavior of Moment-Resisting Steel Column Bases," Eleventh European Conference on Earthquake Engineering, September 1998, CD-ROM, Paris, France, September 1998.
14. Stojadinovic, B., S. C. Goel and K.H. Lee, "Development of Post-Northridge Steel Moment Connections," in Proceedings 12th World Conference on Earthquake Engineering, January 2000, CD-ROM, paper 1269, Auckland, New Zealand.
15. Collins, K. R., and B. Stojadinovic, "Limit States for Performance-Based Design," in Proceedings 12th World Conference on Earthquake Engineering, January, 2000, CD-ROM, paper 0716, Auckland, New Zealand.
16. Lee, K. H., S. C. Goel and B. Stojadinovic, "Boundary Effects in Steel Moment Connections," in Proceedings 12th World Conference on Earthquake Engineering, January 2000, CD-ROM, paper 1098, Auckland, New Zealand.

17. Choi, J., B. Stojadinovic, and S. C. Goel, "Development of the Free Flange Steel Moment Connection," in Proceedings of STESSA 2000, August 2000, Third International Conference on the Behavior of Steel Structures in Seismic Areas, pages 667--673, A. A. Balkema, Rotterdam.
18. Fahmy, M., B. Stojadinovic and S. C. Goel, "Hysteretic Behavior of Steel Moment Resisting Column Basis," in Proceedings of STESSA 2000, Third International Conference on the Behavior of Steel Structures in Seismic Areas, August 2000, pages 191-197, A. A. Balkema, Rotterdam, Nagoya.
19. Kim, T., B. Stojadinovic and A. Whittaker, "Behavior of Steel Moment Connections between a Steel Wide-Flange Beam and a Box Colum," Seventh U.S. National Conference on Earthquake Engineering, Boston, MA, July 2002, CD-ROM, EERI, pp. 1-10.
20. Lee, D., S. C. Goel and B. Stojadinovic, "Relative Strength Effects On Seismic Behavior Of Column-Base Plate Connections Under Weak Axis Bending," Seventh U.S. National Conference on Earthquake Engineering, Boston, MA, July 2002, CD-ROM, EERI, pp. 1-10.
21. Stojadinovic, B., K. Mosalam, S. A. Mahin and J. P. Moehle, "Reconfigurable Reaction Wall Seismic Testing Facility," Seventh U.S. National Conference on Earthquake Engineering, July 2002, Boston, MA, CD-ROM, EERI, pp. 1-10.
22. Mackie, K. and B. Stojadinovic, "Relation between Probabilistic Seismic Demand Analysis and Incremental Dynamic Analysis," Seventh U.S. National Conference on Earthquake Engineering, Boston, MA, July 2002, CD-ROM, EERI, pp. 1-10.
23. Mackie, K. and B. Stojadinovic, "Design Parameter Sensitivity In Bridge Probabilistic Seismic Demand Models," Seventh U.S. National Conference on Earthquake Engineering, Boston, MA, July 2002, CD-ROM, EERI, pp.1-10.
24. Mackie, K. and B. Stojadinovic, "Optimal Probabilistic Seismic Demand Models for Typical Highway Overpass Bridges," 12th European Conference on Earthquake Engineering, London, UK, September 2002, pp. 1-10, CD-ROM.
25. Reitherman, R., W. Holmes, B. Kutter, S. Mahin, T. Prudhomme, A. Reinhorn, B. Stojadinovic, K. Stokoe and S. Yim, "Use of Experimental Facilities in NEES Colaboratory Research," Seventh U.S. National Conference on Earthquake Engineering, Boston, MA, July 2002, CD-ROM, EERI, pp. 1-11.
26. Jankovic, S. and B. Stojadinovic, "Probabilistic Seismic Demand Model for an EC8 R/C Frame Building," 12th European Conference on Earthquake Engineering, London, UK, September 2002, pp. 1-10, CD-ROM.
27. Lee, K., and B. Stojadinovic, "Seismic Bracing Requirements for US Steel Moment Connections," 2003 Annual Stability Conference, April 2003, Fort Lauderdale, FL, CD-ROM, AISC and NASCC, pp. 1-20.
28. Jankovic, S., B. Stojadinovic, M. Ulicevic and J. Popovic, "The Effects of R/C Frame Stiffness Modeling on Seismic Performance," FIB 2003 Symposium: Concrete Structures in Seismic Regions, May 2003, Athens, Greece, pp. 1-8.
29. Lee, K. and B. Stojadinovic, "Seismic Rotation Capacity and Lateral Bracing of US Steel Moment Connections," STESSA 2003: Behavior of Steel Structures in Seismic Areas, June 2003, pp. 335-342.
30. Stojadinovic, B., N. Orbovic and M. Bouchon, "Seismic Performance-Based Evaluation Procedures for R/C Structures in Nuclear Facilities," 6th National Colloquium of the French Para-Seismic Association (AFPS), Paris, France, August 1-3, 2003, pp. 1-8.
31. Stojadinovic, B., N. Orbovic, M. Bouchon and J. T. Wiley, "Static and Dynamic Evaluation of an Existing Nuclear Facility Concrete Frame Structure," International Symposium on Seismic Evaluation of Existing Nuclear Facilities, August 25-29, 2003, Vienna, Austria, pp. 1-4.
32. Mackie, K., and B. Stojadinovic, "Degradation of Reinforced Concrete Column Axial Strength," 5th International PhD Symposium in Civil Engineering, Delft, June 2004, pp. 1-9.
33. Mackie, K. and B. Stojadinovic, "Post-Earthquake Function of Highway Overpass Bridges," in Proceedings of International Workshop on Performance-Based Seismic Design Concepts and Implementation, June 28-July 1, 2004, CD-ROM and PEER 2004/05 Technical Report, Bled, Slovenia, pp. 1-12.

34. G. Mosqueda, B. Stojadinovic and S. A. Mahin, "Geographically Distributed Continuous Hybrid Simulation", 13th World Conference on Earthquake Engineering, CD-ROM Paper #959, Vancouver, Canada, August 2004.
35. J.-M. Wong and B. Stojadinovic, "Structural Sensor Data Repository: Metadata and Web-Based User Interface", 13th World Conference on Earthquake Engineering, CD-ROM Paper #956, Vancouver, Canada, August 2004.
36. T. Kim, B. Stojadinovic and A. Whittaker, "Seismic Performance of US Steel Box Column Connections", 13th World Conference on Earthquake Engineering, CD-ROM Paper #981, Vancouver, Canada, August 2004.
37. K. Lee and B. Stojadinovic, "Low-Cycle Fatigue Limit on Seismic Rotation Capacity for US Steel Moment Connections", 13th World Conference on Earthquake Engineering, CD-ROM Paper #90, Vancouver, Canada, August 2004.
38. N. Orbovic, B. Stojadinovic, M. Bouchon and T. Wiley, "Seismic Performance-Based Evaluation of Nuclear Facility Structures", 13th World Conference on Earthquake Engineering, CD-ROM Paper #254, Vancouver, Canada, August 2004.
39. B. Stojadinovic, J.P. Moehle, S. A. Mahin, K. Mosalam and J. F. Canny, "NEES Equipment Site at the University of California, Berkeley", 13th World Conference on Earthquake Engineering, CD-ROM Paper #1540, Vancouver, Canada, August 2004.
40. K.R. Mackie and B. Stojadinovic, "Fragility Curves for Reinforced Concrete Highway Overpass Bridges", 13th World Conference on Earthquake Engineering, CD-ROM Paper #1553, Vancouver, Canada, August 2004.
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