



Professor Tadeh Zirakian

See:

<https://catalog.csun.edu/academics/cecm/faculty/zirakian-tadeh/>

<https://academics.csun.edu/faculty/tadeh.zirakian>

https://www.researchgate.net/profile/Tadeh_Zirakian_PhD_Pe

<http://csun.academia.edu/TadehZirakianPhDPE>

https://www.omicsonline.org/editor-profile/Tadeh_Zirakian/

Civil Engineering and Construction Management (CECM)
California State University Northridge, USA

Brief Autobiography:

I joined CECM Dept. at CSUN in 2015. I received my Ph.D. in Civil Engineering from UCLA in 2013 by majoring in Structural and Earthquake Engineering and minoring in Structural Mechanics. I have lectured at different universities including UCLA, Cal Poly Pomona, Cal State LA, and LMU. My research has been well-recognized and published in prestigious engineering journals. I am also a registered Professional Engineer (P.E.) in the State of California. (More info. at <http://www.csun.edu/~tzirakian/>)

Education:

Ph.D. 2013, University of California Los Angeles

M.S. 2005, Urmia University

B.S. 2002, Azad University

Research Interests:

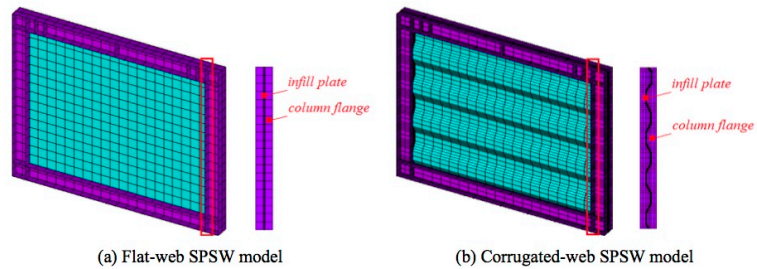


Fig. 4 Typical finite element models and column-plate connection details

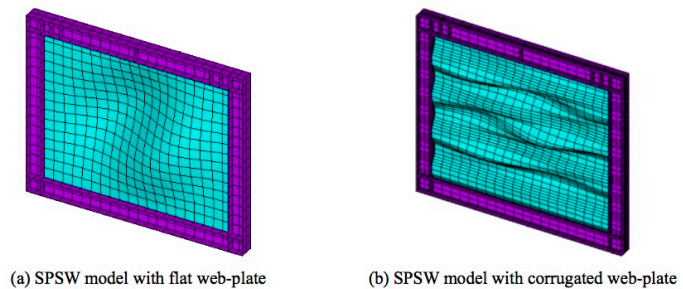


Fig. 5 First buckling mode shapes of typical flat- and corrugated-web wall models

From: Kalali, H., Hajsadeghi, M., Zirakian, T. and Alaei, F.J. (2015), "Hysteretic performance of SPSWs with trapezoidally horizontal corrugated web-plates", *Steel Compos. Struct., Int. J.*, 19(2), 277-292.

Earthquake engineering; Structural dynamics; Performance-based design; Retrofit of structures; Response and vulnerability of structures; Buckling of thin-walled structures; Innovative materials in civil engineering; Experiments and experimental methods; Engineering education

Selected Publications:

- Zirakian, T., Showkati, H. (2006). "Distortional buckling of castellated beams". *Journal of Constructional Steel Research*, 62, pp. 863–871.
- Zirakian, T., "Lateral-distortional buckling of I-beams and the extrapolation techniques", *Journal of Constructional Steel Research*, vol. 64, 1, 2008, p.1-11
- Tadeh Zirakian, Sung Bo Kim and Ayman S. Mosallam, "Further studies on the use of the extrapolation techniques in case of lateral buckling of steel I-beams", *ASCE 5th International Engineering and Construction Conference (IECC'5)*, August 27-29, 2008
- Tadeh Zirakian and Ayman S. Mosallam, "On the applicability of Southwell, Modified, and Massey extrapolation techniques", *Proceedings of SSRC 2009 Annual Stability Conference*, April 1-3, Phoenix, Arizona, USA, pp 1-18
- Zirakian, T., "On the application of the extrapolation techniques in elastic buckling", *Journal of Constructional Steel Research*, vol. 66, 3, 2010, p.335-341
- Zirakian, T. & Nojourni, S.A., "Elastic lateral–distortional buckling of I-beams and the Meck Plot", *Structural Engineering and Mechanics*, vol. 37, 3, 2011
- Tadeh Zirakian and Jian Zhang, "Elastic distortional buckling of singly symmetric I-shaped flexural members with slender webs", *International Journal of Structural Stability and Dynamics*, Vol. 12, No. 2, 359, March 2012
- Hossein Showkati, Tohid Ghanbari Ghazijahani, Amir Noori and Tadeh Zirakian, "Experiments on elastically braced castellated beams", *Journal of Constructional Steel Research*, Vol. 77, pp 163-172, October 2012
- Tohid Ghanbari Ghazijahani and Tadeh Zirakian, "Determination of buckling loads of conical shells using extrapolation techniques", *Thin-Walled Structures*, Vol. 74, pp 292-299, January 2014
- Mohammad Hajsadeghi, Tadeh Zirakian, Ali Keyhani, Reza Naderi and Amir Shahmohammadi, "Energy dissipation characteristics of steel coupling beams with corrugated webs", *Journal of Constructional Steel Research*, Vol. 101, pp 124-132, 2014
- Zirakian T, Zhang J (2015) Buckling and yielding behavior of unstiffened slender moderate and stocky low yield point steel plates. *Thin-Walled Structures* 88: 105-118.
- Zirakian T, Zhang J (2015) Seismic design and behavior of low yield point steel plate shear walls. *International Journal of Steel Structures* 15: 135-151.
- Zhang J, Zirakian T (2015) Probabilistic assessment of structures with SPSW systems and LYP steel infill plates using fragility function method. *Engineering Structures* 85: 195-205.
- Kalali, H., Hajsadeghi, M., Zirakian, T. and Alaei, F.J. (2015), "Hysteretic performance of SPSWs with trapezoidally horizontal corrugated web-plates", *Steel Compos. Struct., Int. J.*, 19(2), 277-292.
- Tohid Ghanbari Ghazijahani, Hamed Sadighi Dizaji, Javad Nozohor and Tadeh Zirakian, "Experiments on corrugated thin cylindrical shells under uniform external pressure", *Ocean Engineering*, Vol. 106, pp 68-76, September 2015
- Milad Bahrebar, Tadeh Zirakian and Mohammad Hajsadeghi, "Nonlinear buckling analysis of steel plate shear walls with trapezoidally-corrugated and perforated infill plates", *Proceedings of the Annual Stability Conference, SSRC, Nashville, Tennessee, March 24-27, 2015*
- Khoeilar AR, Zirakian T, Boyajian D, Maalouf S, Dermendjian N, "Case Study on Retrofit of Steel Plate Shear Walls Using Low Yield Point Steel Infill Plates", *J Steel Struct Constr* 2:106. December 2015

Milad Bahrebar, Mohammad Zaman Kabir, Tadeh Zirakian, Mohammad Hajsadeghi and James B.P. Lim, “Structural performance assessment of trapezoidally-corrugated and centrally-perforated steel plate shear walls”, *Journal of Constructional Steel Research*, Vol. 122, pp 584-594, July 2016

Tadeh Zirakian, James B.P. Lim, Mohammad Hajsadeghi and Milad Bahrebar, “Structural performance of corrugated web steel coupling beams”, *Institution of Civil Engineers Proceedings Structures and Buildings*, September 2016

Ayman Mosallam, Tadeh Zirakian, Ayman Abdelaal and Alemdar Bayraktar, “Health monitoring of a steel moment-resisting frame subjected to seismic loads”, *Journal of Constructional Steel Research*, Vol. 140, pp 34-46, 2018

Ayman Mosallam, Tadeh Zirakian and Ayman Abdelaal, “Performance assessment of steel moment-resisting frame structures using fragility methodology”, *Journal of Structural Engineering*, March 2018

Mostafa Nabati, Tadeh Zirakian, Amir Shahmohammadi and Mohammad Hajsadeghi, “Structural performance assessment of through-column-type beam-to-column joints”, *American Journal of Civil Engineering and Architecture*, Vol. 6, No. 4, pp 158-167, 2018