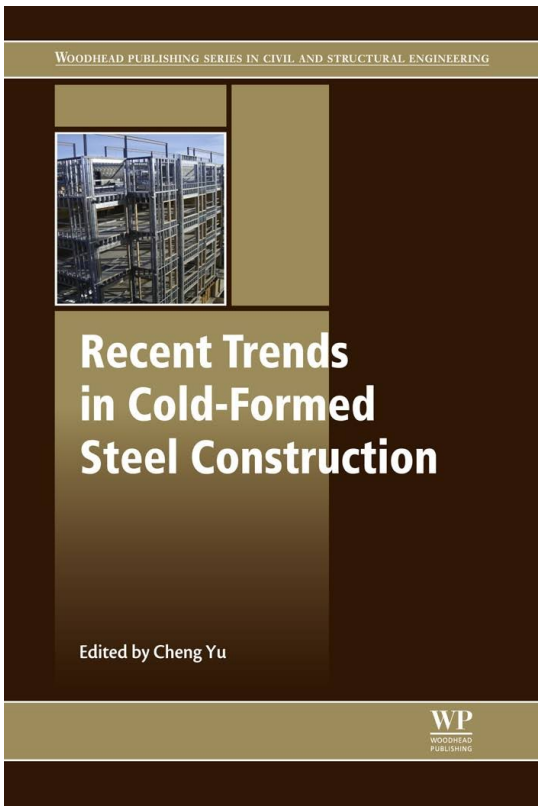
Professor Cheng Yu



Yu, C. (Editor), (2016). "Recent Trends in Cold-Formed Steel Construction." Woodhead Publishing Limited, Elsevier. ISBN 9780081009604.

See:
https://engineering.unt.edu/technology/people/cheng-yu
https://engineering.unt.edu/technology/public/cyu/
https://www.omicsonline.org/editor-profile/Cheng_Yu/
https://www.researchgate.net/profile/Cheng_Yu8
https://scholar.google.com/citations?user=TsVoMcIAAAAJ&hl=en
https://www.eurekalert.org/pub_releases/2014-11/uont-uco110514.php
http://slideplayer.com/slide/1567164/
https://www.amazon.com/Recent-Trends-Cold-Formed-Steel-Construction/dp/0081009607

Construction Engineering Technology, Department of Engineering Technology
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Biography:
Cheng Yu is a professor and program coordinator in the Department of Engineering Technology at the University of North Texas, Denton, Texas. He received his BS in Civil Engineering from Tsinghua University. Both his MS and PhD were earned from the Johns Hopkins University. Dr. Yu's research interests include thin-walled structures, structural stability, coldformed steel, steel structures, earthquake engineering, and building information modeling. Dr. Yu is an active committee member of the American Iron and Steel Institute which develops the North American Cold-Formed Steel Specifications and Standards. Dr Yu's research has been

funded by federal agencies, professional associations, and the industries. In 2010, Dr. Yu received a 5-year Faculty Early Career Development (CAREER) award from the U.S. National Science Foundation to support his research on cold-formed steel shear walls.

Research Interests:
Dr. Yu's research focuses on Thin-Walled, Cold-Formed Steel Structures, Computational Mechanics, Earthquake Engineering, Structural Dynamics and Control, Structural Stability, Building Information Modeling, and Construction Technology.

Education:
Ph.D. Civil/Structural Engineering, Johns Hopkins University, May 2005
M.S. Civil/Structural Engineering, Johns Hopkins University, May 2005
B.E. Civil/Structural Engineering, Tsinghua University, Beijing, China, June 1998

Employment:
Professor, University of North Texas, September 2016-Present
Associate Professor, University of North Texas, June 2011-August 2016
Assistant Professor, University of North Texas, January 2005- May 2011
Research Assistant, Johns Hopkins University, September 2000 - December 2004

Selected Publications:
Book:
Yu, C. (Editor), (2016). "Recent Trends in Cold-Formed Steel Construction." Woodhead Publishing Limited, Elsevier. ISBN 9780081009604.

Refereed Journal Articles (* student advised, !corresponding author)

34. Zhang, W.*, Mahdavian, M.*, Li, Y., Yu, C.!, (2017). "Seismic Performance Evaluation of Cold-Formed Steel Shear Walls using Corrugated Steel Sheathing". ASCE, Journal of Structural Engineering. (accepted)

33. Yan, W., Xie, Z.*, Yu, C.!, Song, L., He, H. (2017). "Experimental Investigation on Self-Piercing Rivet Connections in Thin-Walled Steel Structures." Elsevier, Journal of Constructional Steel Research. 133 (2017) 231-240. http://dx.doi.org/10.1016/j.jcsr.2017.02.022.

32. Yu, C.!, Yousof, M.*, Mahdavian, M.*, Zhang, W.* (2017). "Design of Cold-Formed Steel Clip Angles in Compression." ASCE, Journal of Structural Engineering. DOI: http://dx.doi.org/10.1061/(ASCE)ST.1943-541X.0001767.

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30. Zhang, W.*, Madsavian, M.*, Li, Y., Yu, C. ! (2016). "Experiments and Simulations of Cold-Formed Steel Wall Assemblies using Corrugated Steel Sheathing subjected to Shear and Gravity Loads." ASCE, Journal of Structural Engineering. 10.1061/(ASCE)ST.1943-541X.0001681 , 04016193.

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28. B.W. Schafer !, D. Ayhan, J. Leng, P. Liu, D. Padilla-Llano, K.D. Peterman, M. Stehman, S.G. Buonopane, M. Eatherton, R. Madsen, B. Manley, C.D. Moen, N. Nakata, C. Rogers, and C. Yu. (2016). "Seismic Response

and Engineering of Cold-Formed Steel Framed Buildings." Elsevier, Structures. Vol 8, Part 2, November 2016, 197-212.

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26. Dara, M.*, Yu, C. ! (2016). "Direct Strength Method for Web Crippling of Cold-Formed Steel C- and Z-Sections Subjected to One-Flange Loading." Journal of Steel Structure and Construction, OMICS International, 1: 105. doi:10.4172/jssc.1000105.

25. Zhang J.!, Dong, H., Cao, W., Yu, C., Chi, Y. (2016). "Shaking Table Tests of Low-Rise Shear Walls Made of Recycled Aggregate Concrete." Structural Engineering International, IABSE (In press). DOI: 10.2749/101686616X14480232444441.

24 Lu, X. !, Xie, L., Yu, C., Lu X., (2016). "Development and Application of a Simplified Model for the Design of a Super-Tall Mega-Braced Frame-Core Tube Building." Elsevier, Engineering Structures, 110 (2016) 116-126.

23. Tian, H.W., Li, Y.Q. !, Yu, C. (2015). "Testing of Steel Sheathed Cold-Formed Steel Trussed Shear Walls." Thin-Walled Structures, 09/2015; 94(2015), 280-292.

22. Yu, C. !, Li, C.* (2015). "Behavior and Strength of Cold-Formed Steel Shear Walls using Composite Panels." Advances in Structural Engineering, Vol 18, No. 7 (2015), 1063-1070.

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19. Balh, N., DaBreo, J., Ong-Tone, C., El-Saloussy, K., Yu, C., Rogers, C.A. ! (2014). "Design of Steel Sheathed Cold-Formed Steel Framed Shear Walls." Thin-Walled Structures 75 (2014), 76-86.

18. Yanagi, N.*, Yu, C. ! (2014). "Effective Strip Method for the Design of Cold-Formed Steel Framed Shear Wall with Steel Sheet Sheathing." ASCE, Journal of Structural Engineering, 140(4), 04013101. 10.1061/(ASCE)ST.1943-541X.0000870.

17. Ahmadi, M., Zhang, H. !, Yu, C., Wahrmund, J. (2014). "Determining Elastic and Shear Moduli of cold-Formed Steel at Elevated Temperatures Using a New Sonic Resonance Method." Nondestructive Testing and Evaluation, Volume 29, No. 1, 1-13.

16. Yu, C. !, Panyanouvong, M.X.* (2013). "Bearing Strength of Cold-Formed Steel Bolted Connections with a Gaps." Elsevier, Thin-Walled Structures, 67 (2013), 110-115.

15. De Leon, D. !, Reyes, A., Yu, C. (2013). "Probabilistic Assessment of the Structural Safety of Bolted and Welded Connection for Seismic Zones." Elsevier, Journal of Constructional Steel Research, 88 (2013), 15-20.

14. Yu, C. !, Xu, K.*, (2013). "Shear Strength of Cold-Formed Steel Sheet in Bolted Connections Using Oversized Holes." ASCE, Journal of Structural Engineering, 139 (2013), 860-864.

13. Zhao, Y.*, Yan, W., Yu, C. ! (2012). "Experimental Study of Cold-Formed Steel Framed Shear Wall Assemblies with Tapping Corrugated Sheet Steel Sheathing." Earthquake Resistant Engineering and Retrofitting, 6 (2012), 87-92.

12. Law, K.*, Zhao, Y.*, Yan, W., Yu, C. ! (2012). “Simplified Method for Critical Elastic Distortional Buckling of Cold-Formed Steel C and Z Sections.” Advances in Structural Engineering, Vol 15, No. 12, (2012), 2013-2019.

11. Yu, C. ! (2012). “Cold-Formed Steel Flexural Member with Edge Stiffened Holes: Behavior, Optimization, and Design.” Elsevier, Journal of Constructional Steel Research, 71 (2012), 210-218.

10. Yu, C. !, Yan, W. (2011). “Determining Distortional Buckling Strength of Cold-Formed Steel Flexural C and Z Sections Using Effective Width Method Thin-Walled Structures.” Elsevier, Thin- Walled Structures, Volume 49, Issue 2, (2011), 233-238.

9. Yu, C. !, Xu, K.*, Sheerah, I.* (2011). “Bearing Strength of Cold-Formed Steel Bolted Connections Using Oversized Holes without Washers.” ASCE, Journal of Structural Engineering, 137 (2011), 156- 159.

8. Yu, C. !, Chen, Y.* (2011). “Detailing Recommendations for 1.83-m Wide Cold-Formed Steel Shear Walls with Steel Sheathing.” Elsevier, Journal of Constructional Steel Research, 67 (2011), 93-101.

7. Yu, C. ! (2010). “Shear Resistance of Cold-Formed Steel Framed Shear Walls with 0.686-mm, 0.762- mm, and 0.838-mm Steel Sheet Sheathing.” Elsevier, Engineering Structures, 32 (2010), 1522-1529.

6. Yu, C. ! (2010). “Distortional Buckling Of Cold-Formed Steel Shear Wall Studs Under Uplift Force.” ASCE, Journal of Structural Engineering, 136 (3), 317-323.

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4. Yu, C. !, Schafer, B.W. (2007). “Effect of Longitudinal Stress Gradient on the Elastic Buckling of Thin Plates.” ASCE, Journal of Engineering Mechanics, 133(4), 452-463.

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1. Yu, C., Schafer, B.W. ! (2003). “Local Buckling Tests on Cold-Formed Steel Beams.” ASCE, Journal of Structural Engineering, 129 (12), 1596-1606.