Publications for Gregory Hancock

2020


Pham, S., Pham, C., Rogers, C., Hancock, G. (2020). Transverse Shear Strength Experiments and Design of Cold-Formed Steel Channels with Web Holes. *Journal of Structural Engineering*, 146(1), 04019173-1-04019173-14. [More Information](http://dx.doi.org/10.1061/(ASCE)ST.1943-541X.0002464)


2019


Pham, S., Pham, C., Hancock, G. (2019). Transverse Stiffener Requirements for Shear Postbuckling of Cold-Formed Steel Channels. *9th International Conference on Steel and Aluminium Structures (ICAS 2019)*, Bradford: Independent Publishing Network.

2018

Hancock, G. (2018). Coupled Instabilities in Metal Structures (CIMS) $i_{5/2}$ What have we learned and where are we going? *Thin-Walled Structures*, 128, 2-11. [More Information](http://dx.doi.org/10.1016/j.tws.2017.04.032)

Trinh, H., Proust, G., Pham, C., Hancock, G. (2018). Effects of cold-forming process on the properties of G450 cold-formed steel channels. *Ninth International Conference on Advances in Steel Structures (ICASS 2018)*, Hong Kong: Hong Kong Institute of Steel Construction. [More Information](http://dx.doi.org/10.18057/ICASS2018.P.125)
Pham, S., Pham, C., Rogers, C., Hancock, G. (2018). Experimental Studies of Cold-Formed Steel Beams Under Uniform Shear Forces with Minimal Bending Moments. *Eighth International Conference on Thin-Walled Structures - ICTWS 2018*, Lisbon, Portugal: DECivil/IST/UL - University of Lisbon.


Huynh, M., Pham, C., Hancock, G. (2018). Experiments on Screwed Connections in Shear using High Strength Cold-Reduced Sheet Steels. *Eighth International Conference on Thin-Walled Structures - ICTWS 2018*, Lisbon, Portugal: DECivil/IST/UL - University of Lisbon.


Huynh, M., Pham, C., Hancock, G. (2018). Modelling of Screwed Connections in Shear using High Strength Cold-Reduced Sheet Steels. *Eighth International Conference on Thin-Walled Structures - ICTWS 2018*, Lisbon, Portugal: DECivil/IST/UL - University of Lisbon.

Pham, S., Pham, C., Rogers, C., Hancock, G. (2018). New proposals for the direct strength method of design of cold-formed steel beams with holes in shear. *Wei-Wen Yu International Specialty Conference on Cold-Formed Steel Structures (CCFSS 2018)*, Rolla, Missouri: Missouri University of Science and Technology.


2014

Hancock, G., Pham, C. (2014). Buckling Analysis of Thin-Walled Sections under Localised Loading Using the Semi-Analytical Finite Strip Method. *The 7th International Conference on Thin-Walled Structures*, online: ICTWS.

Hancock, G., Pham, C. (2014). Developments in the finite strip buckling analysis of plates and channel sections under localised loading. *22nd International Specialty Conference on Cold-Formed Steel Structures*, St Louis, Missouri: Missouri University Science & Technology.

Lim, J., Hancock, G., Clifton, G., Pham, C. (2014). Direct Strength Method for Ultimate Strength of Bolted Moment-Connections between Cold-Formed Steel Channel Members. *22nd International Specialty Conference on Cold-Formed Steel Structures*, St Louis, Missouri: Missouri University of Science & Technology.

More Information]

Bruneau, L., Pham, C., Hancock, G. (2014). Experimental study of longitudinal stiffened web channels subjected predominantly to shear. *22nd International Specialty Conference on Cold-Formed Steel Structures*, St Louis, Missouri: Missouri University of Science & Technology.

Pham, C., Bruneau, L., Hancock, G. (2014). New Developments in the Direct Strength Method of Design for Cold-Formed Sections Subject to Shear. *The 7th International European Conference on Steel and Composite Structures (Eurosteel)*, Berlin: Ernst & Sohn Verlag tÂ¼r Architektur und technische Wissenschaften GmbH.

Pham, C., Hancock, G. (2014). Numerical Investigation of Longitudinally Stiffened Web Channels Predominantly in Shear. *The 7th International Conference on Thin-Walled Structures*, online: ICTWS.

Pham, C., Chin, Y., Boutros, P., Hancock, G. (2014). The Behaviour of Cold-Formed C-Sections with Square Holes in Shear. *22nd International Specialty Conference on Cold-Formed Steel Structures*, St Louis, Missouri: Missouri University of Science & Technology.

2013

More Information]

More Information]

More Information]

2012

Pham, C., Hancock, G. (2012). Direct Strength Design of Cold-Formed C-Sections for Shear and Combined Actions. *Journal of Structural Engineering*, 138(6), 759-768.  
More Information]

Pham, C., Hancock, G. (2012). Direct Strength Design of High Strength Complex C-Sections in Pure Bending. *7th International Conference on Advances in Steel Structures (ICASS 2012)*, Nanjing: Southeast University Press.

More Information]

Pham, C., Hancock, G. (2012). Elastic Shear Buckling of Cold-Formed Channels: Comparisons of Semi-Analytical Finite Strip and Spline Finite Strip Methods. *Sixth International Conference on Coupled Instabilities in Metal Structures CIMS2012*, Scotland: Loughborough University.

More Information]

More Information]

2011


More Information]

Hancock, G. (2011). Harmonising the Australian Standard AS 4100 Steel Structures. In Lau Hieng Ho (Eds.), *Advances in Steel and Aluminium Structures*, (pp. 3-10). Singapore: Research Publishing.

2010

Pham, C., Hancock, G. (2010). Direct Strength Design of Cold-Formed C-Sections for Shear. *20th International Speciality Conference on Cold-Formed Steel Structures*, Rolla, Missouri: Missouri University of Science and Technology.

Pham, C., Hancock, G. (2010). Direct Strength Design of Cold-Formed C-Sections in Combined Bending and Shear. *20th International Speciality Conference on Cold-Formed Steel Structures*, Rolla, Missouri: Missouri University of Science and Technology.

Pham, C., Hancock, G. (2010). Direct Strength Design of Cold-Formed Sections for Shear and Combined Actions. *International Colloquium on Stability and Ductility of Steel Structures (SDSS 2010)*, Brazil: Federal University of Rio de Janeiro.


Pham, C., Hancock, G. (2010). Experimental Investigation of High Strength Cold-Formed SupaCee Sections in Shear. *International Colloquium on Stability and Ductility of Steel Structures (SDSS 2010)*, Brazil: Federal University of Rio de Janeiro.

Pham, C., Hancock, G. (2010). Finite Element Analyses of High Strength Cold-Formed SupaCee Sections in Shear. *International Colloquium on Stability and Ductility of Steel Structures (SDSS 2010)*, Brazil: Federal University of Rio de Janeiro.


2009


Pham, C., Hancock, G. (2009). Shear buckling of thin-walled channel sections with intermediate web stiffener. *Sixth International Conference on Advances in Steel Structures*, Hong Kong: Hong Kong Institute of Steel Construction.

2008

Pham, C., Hancock, G. (2008). Buckling Studies of Thin-Walled Channel Sections in Shear. *Fifth International Conference on Thin-Walled Structures*, Brisbane, Australia: Queensland University of Technology.

Pham, C., Hancock, G. (2008). Buckling Studies of Thin-Walled Channel Sections under Combined Bending and Shear. *Nineteen International Speciality Conference*, St Louis, Missouri: Missouri University of Science & Technology.

Kwon, Y., Kim, B., Hancock, G. (2008). Compression tests for high strength cold-formed steel columns undergoing interaction between local and distortional buckling. *Fifth International Conference on Coupled Instabilities in Metal Structures CIMS2008 (volume 2)*, Sydney Australia: The University Publishing Service, University of Sydney.

Pham, C., Hancock, G. (2008). Direct Strength Design of Cold-Formed Purlins. *Fifth International Conference on Thin-Walled Structures*, Brisbane, Australia: Queensland University of Technology.


Hancock, G. (2008). The Sixth Equation that Changed the World. *Fifth International Conference on Coupled Instabilities in Metal Structures CIMS2008 (volume 2)*, Sydney Australia: The University Publishing Service, University of Sydney.

2007


2006

Yap, D., Hancock, G. (2006). Experimental Study of a Complex High Strength Cold-Formed Cross-Shaped Steel Section. *International Colloquium on Stability and Ductility of Steel Structures (SDSS 2006)*, Portugal: IST Press.


Yap, D., Hancock, G. (2006). Post-Buckling in the Distortional Mode and Buckling Mode Interaction of Cold-Formed Thin-Walled Sections with Edge Stiffeners. *18th International Speciality Conference on Cold-Formed Steel Structures*, Rolla, Missouri: University of Missouri-Rolla.

2005


Hancock, G. (2005). Developments in the Direct Strength Design of Cold-Formed Steel Structural Members.

Hancock, G., Cook, D., Moisy, R., Yen, A. (2005). Direct Strength Design of Hot-Rolled and Cold-Formed Steel Compression Members.
Hancock, G., Cook, D., Moisy, R., Yen, A. (2005). Direct Strength Design of Hot-Rolled and Cold-Formed Steel Compression Members. 4th International Conference on Advances in Steel Structures, Shanghai, China: University of Missouri-Rolla, Rolla, MO, 65409-1060, United States.


2004


Yang, D., Hancock, G. (2004). Numerical Simulations Of High Strength Steel Box-Shaped Columns. 17th International Specialty Conference on Cold-Formed Steel Structures, Orlando, FL, United States: University of Missouri-Rolla, Rolla, MO, 65409-1060, United States.


2003


2002

Yang, D., Hancock, G., Rasmussen, K. (2002). Compression Tests of Cold-Reduced High Strength Steel Long Columns. Sixteenth International Specialty Conference on Cold-Formed Steel Structures, Rolla, Missouri: Department of Civil Engineering, University of Missouri-Rolla.

Hancock, G., Young, B. (2002). Design of Channels subjected to Concentrated Bearing Load. Sixteenth International Specialty Conference on Cold-Formed Steel Structures, Rolla, Missouri: Department of Civil Engineering, University of Missouri-Rolla.

Hancock, G., Quispe, L. (2002). Direct Strength Method for the Design of Purlins. Sixteenth International Specialty Conference on Cold-Formed Steel Structures, Rolla, Missouri: Department of Civil Engineering, University of Missouri-Rolla.


Teh, L., Hancock, G. (2002). Strength and Behaviour of Fillet Welded Connections in G450 Sheet Steel. Sixteenth International Specialty Conference on Cold-Formed
Steel Structures, Rolla, Missouri: Department of Civil Engineering, University of Missouri-Rolla.


Harris, E., Hancock, G. (2002). Sway Stability Testing of High Rise Rack Sub-Assemblies. Sixteenth International Specialty Conference on Cold-Formed Steel Structures, Rolla, Missouri: Department of Civil Engineering, University of Missouri-Rolla.


Hancock, G., Yang, D., Rogers, C. (2002). The Behaviour of High Strength G550 Steel Sections as used in Residential Construction. Second International Symposium on Steel Structures, Seoul: Korean Society of Steel Construction.

2001


