



**Professor Mostafa Fahmi Hassanein**

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#### Research Interests:

Thin-walled structures; steel-concrete composite structures; numerical analysis

#### Selected Publications:

M.F. Hassanein, "Imperfection analysis of austenitic stainless steel plate girders failing by shear", *Engineering Structures*, Vol. 32, No. 3, pp 704-713, March 2010

M.F. Hassanein and O.F. Kharoob, "Shear strength and behavior of transversely stiffened tubular flange plate girders", *Engineering Structures*, Vol. 32, No. 9, pp 2617-2630, September 2010

M.F. Hassanein, "Numerical modeling of concrete-filled lean duplex slender stainless steel tubular stub columns", *Journal of Constructional Steel Research*, Vol. 68, No. 8, pp 1057-1068, September 2010

M.F. Hassanein, "Finite element investigation of shear failure of lean duplex stainless steel plate girders", *Thin-Walled Structures*, Vol. 49, No. 8, August 2011

M.F. Hassanein and O.F. Kharoob, "An extended evaluation for the shear behavior of hollow tubular flange plate girders", *Thin-Walled Structures*, Vol. 56, pp 88-102, July 2012

M.F. Hassanein, O.F. Kharoob, Q.Q. Liang, "Behaviour of circular concrete-filled lean duplex stainless steel-carbon steel tubular short columns", *Eng. Struct.*, 56 (2013), pp. 83-94

M.F. Hassanein, O.F. Kharoob and A.M El Hadidy, "Lateral-torsional buckling of hollow tubular flange plate girders with slender stiffened webs", *Thin-Walled Structures*, Vol. 65, pp 49-61, April 2013

M.F. Hassanein, O.F. Kharoob and Q.Q. Liang, "Behaviour of circular concrete-filled lean duplex stainless steel tubular short columns", *Thin-Walled Structures*, Vol. 68, pp 113-123, July 2013

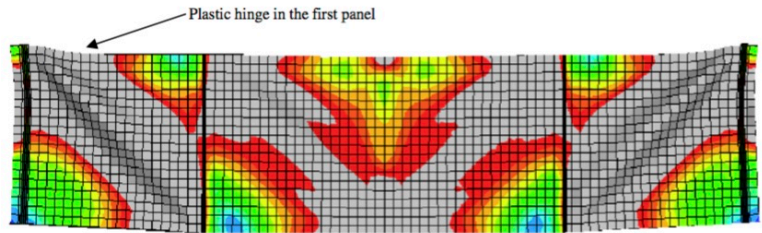


Fig. 4. Stress distribution of APG2(4-14)/h/100 at the ultimate load (731 kN).

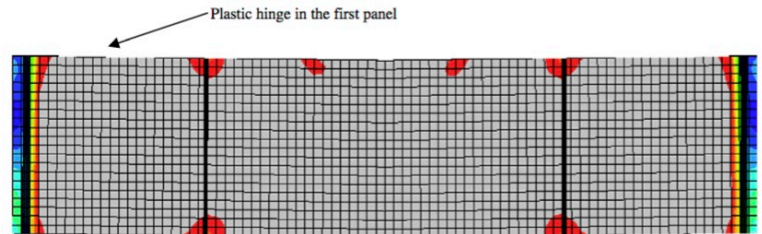


Fig. 5. Stress distribution of APG2(4-14)BIF at the ultimate load (1129 kN).

From: M.F. Hassanein, "Imperfection analysis of austenitic stainless steel plate girders failing by shear", *Engineering Structures*, Vol. 32, No. 3, pp 704-713, March 2010

M.F. Hassanein and O.F. Kharoob, "Flexural strength of hollow tubular flange plate girders with slender stiffened webs under mid-span concentrated load", *Thin-Walled Structures*, Vol. 69, pp 18-28, August 2013

M.F. Hassanein and O.F. Kharoob, "Shear capacity of stiffened plate girders with compression tubular flanges and slender webs", *Thin-Walled Structures*, Vol. 70, pp 81-92, September 2013

M.F. Hassanein and O.F. Kharoob, "Behavior of bridge girders with corrugated webs: Part I Real boundary condition at the juncture of the web and flanges", *Engineering Structures*, Vol. 57, pp 554-564, December 2013

M.F. Hassanein and O.F. Kharoob, "Behavior of bridge girders with corrugated webs: Part II Shear strength and design", *Engineering Structures*, Vol. 57, pp 544-553, December 2013

M.F. Hassanein, O.F. Kharoob and Q.Q. Liang, "Circular concrete-filled double skin tubular short columns with external stainless steel tubes under axial compression", *Thin-Walled Structures*, Vol. 73, pp 252-263, December 2013

M.F. Hassanein, N. Silvestre, Lateral-distortional buckling of hollow tubular flange plate girders with slender unstiffened webs, *Eng Struct*, 56 (2013), pp. 572–584

M.F. Hassanein and O.F. Kharoob (Department of Structural Engineering, Faculty of Engineering, Tanta University, Tanta, Egypt), "Compressive strength of circular concrete-filled double skin tubular short columns", *Thin-Walled Structures*, Vol. 77, pp 165-173, April 2014

M.F. Hassanein and O.F. Kharoob, "Analysis of circular concrete-filled double skin tubular slender columns with external stainless steel tubes", *Thin-Walled Structures*, Vol. 79, pp 23-37, June 2014

M.F. Hassanein and O.F. Kharoob, "Shear buckling behavior of tapered bridge girders with steel corrugated webs", *Engineering Structures*, Vol. 74, pp 157-169, September 2014

M.F. Hassanein and O.F. Kharoob, "Linearly tapered bridge girder panels with steel corrugated webs near intermediate supports of continuous bridges", *Thin-Walled Structures*, Vol. 88, pp 119-128, March 2015

M.F. Hassanein, "Fundamental behaviour of concrete-filled pentagonal flange plate girders under shear", *Thin-Walled Structures*, Vol. 95, pp 221-230, October 2015

M.F. Hassanein, O.F. Kharoob and L. Gardner, "Behaviour and design of square concrete-filled double skin tubular columns with inner circular tubes", *Engineering Structures*, Vol. 100, pp 410-424, October 2015

A.A. Elkawas, M.F. Hassanein, M.H. El-Boghdadi, "Numerical investigation on the nonlinear shear behaviour of high-strength steel tapered corrugated web bridge girders", *Eng. Struct.*, 134 (2017), pp. 358-375