



Professor Roger Cheng (J.J.R. Cheng)

See:

<http://www.civil.engineering.ualberta.ca/Research/ResearchAreas/Structural/DrJJRogerCheng.aspx>

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Chair of Dept. of Civil and Environmental Engineering
C.W. Carry Professor of Steel Structures, Structural Engineering
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Research Interests:

Steel structures; Rehabilitation of structures using fiber reinforced composite materials; Energy pipelines; Structural health monitoring; Design and behaviour of steel structures; Cold-formed steel structures; Structural stability; Structural connections; Fracture and fatigue; Engineered wood products and systems; Advanced composite materials

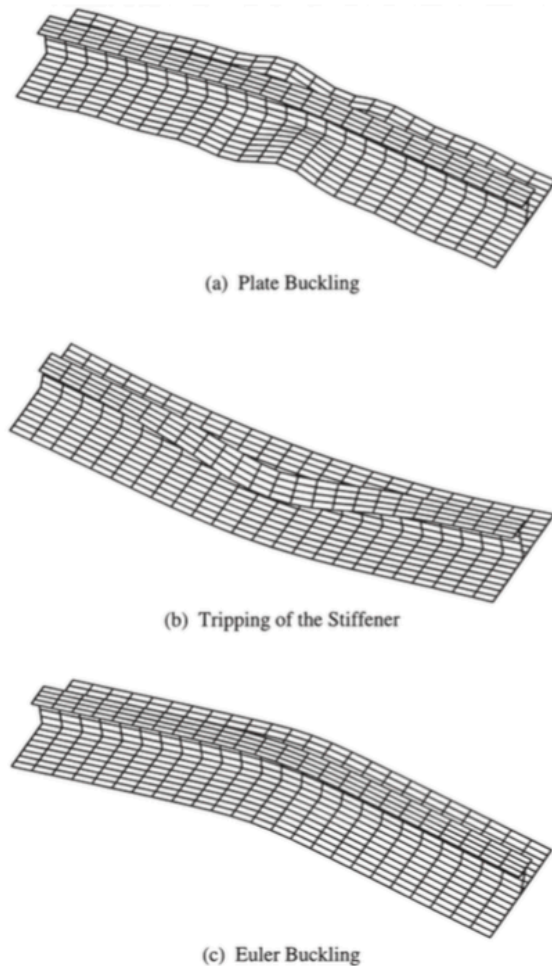


Fig. 2. Failure modes of stiffened plates.

From: G.Y. Grondin, A.E. Elwi, and J.J.R. Cheng, "Buckling of stiffened steel plates—a parametric study", *J Constr Steel Res*, 50(2):151–175, 1999

Education:

Ph.D. 1984. The University of Texas at Austin, Austin, Texas, USA

M.Sc. 1981. Civil Engineering, The University of Texas at Austin, Austin, Texas, USA

B.Sc. 1976. Hydraulic Engineering, National Cheng-Kung University, Taiwan

Selected Publications:

Grondin, G.Y., Q. Chen, A.E. Elwi and J.J.R. Cheng, 1998. Stiffened Steel Plates under Compression and Bending. *Journal of Constructional Steel Research*, 45: 125-148.

G.Y. Grondin, A.E. Elwi, and J.J.R. Cheng, "Buckling of stiffened steel plates—a parametric study", *J Constr Steel Res*, 50(2):151–175, 1999

Dorey, A.B., Murray, D.W., Cheng, J.J.R., Grondin, G.Y. and Zhou, Z.J. (1999). Testing and Experimental Results for NPS30 Line Pipe under Combined Loads. *Proc. ASME Offshore Mechanics and Offshore Engineering*, St. Johns, Newfoundland, Canada, July 11-16, 1999, 73-81

Yoosef-Ghodsi, Cheng, J.J.R., Murray, D.W., Doblanko, R. and Wilkie, S. (2000). Analytical Simulation and Field Measurements for a Wrinkle on the Norman Wells Pipeline. *Proc. ASME International Pipeline Conference*, Calgary, Alberta, Canada, October 1-5, 2000, Vol.2, 931-938

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Das, S., Cheng, J.J.R., Murray, D.W., Wilkie, S.A. and Zhou, Z.J. (2001). Wrinkle Behavior under Cyclic Strain Reversal in NPS12 Pipe. *Proc. ASME Offshore Mechanics and Arctic Engineering*, Rio de Janeiro, Brazil, June 3-8, 2001, Vol. 4, 129-138.

Das, S., Cheng, J.J.R. and Murray, D.W. (2002). Fracture in Wrinkled Linepipe under Monotonic Loading. *Proc. ASME International Pipeline Conference*, Calgary, Alberta, Canada, September 4-October 3, 2002, Vol. 2, 1613-1618.