



Professor Luís Simões da Silva

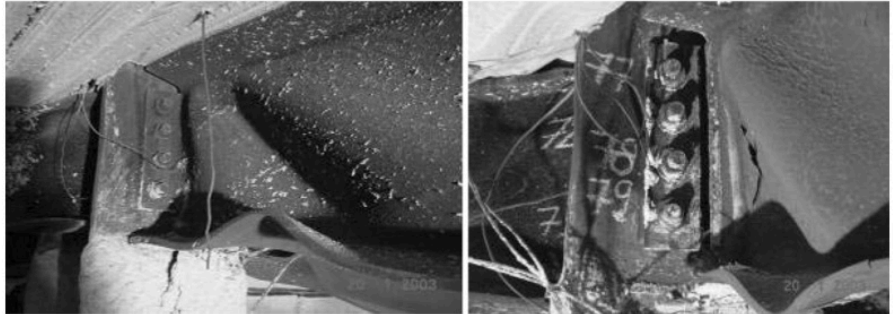


Fig. 8 (a) Beam web in shear and local buckling of beam lower flange; (b) End-plate fracture

From: Luis Simoes da Silva, Aldina Santiago and Paulo Vila Real, "Behaviour of steel joints under fire loading, Steel and Composite Structures, December 2005

See:

<https://www.uc.pt/ftuc/dec/pessoas/docentes/luissimoesda Silva>

https://en.wikipedia.org/wiki/Lu%C3%ADs_Sim%C3%B5es_da_Silva

https://www.researchgate.net/profile/Luis_Silva44

<https://scholar.google.co.in/citations?user=Gg-PFwkAAAAJ&hl=en>

Structural Mechanics, Head of the Civil Engineering Department, Director of the Institute for Sustainability and Innovation in Structural Engineering
University of Coimbra, Portugal

Education:

BSc in structural engineering in 1984, University of Coimbra.

MSc in structural steel design in 1986, Imperial College London

PhD (and DIC) in structural mechanics in 1989, Imperial College London.

Awards and honors:

2013 European Convention for Constructional Steelwork Silver Medal

2013 Personality of the Year in Engineering – Journal CONSTRUIR

2014 The Portuguese Academy of Engineering member award

Academic Service:

Chairman of the Editorial Board of ECCS

Chairman of the Editorial Board of Steel Construction – Design and Construction

Member of the Editorial Boards of Steel and Composite Structures, Journal of Constructional Steel Research, Advanced Steel Construction

Selected Publications:

- Hunt G. W., Da Silva L. S., Manzacchi G. M. E. 1988 Interactive buckling in sandwich structures Proc. R. Soc. Lond. A 417 155-177
- G. W. Hunt and L. S. da Silva, Interactive bending behavior of sandwich beams, ASME J. Appl. Mech., 57 (1990), pp. 189–196.
- L.A.P.S. da Silva and J.M.C. Santos. Localised formulations for thick “sandwich” laminated and composite structures. Computational Mechanics 22:211–224, 1998.
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- Simão, P., Simões da Silva, L. (2003c), Comportamento pós-bifurcacional de colunas metálicas enformadas a frio de secção de parede fina no contexto da GBT, in Infante Barbosa, J. (Ed.), VII Congresso Nacional de Mecânica Aplicada e Computacional, Évora, pp 269-278.
- Simão, P., Simões da Silva, L. (2004a), A unified energy formulation for the stability analysis of open and closed thin-walled members in the framework of the Generalized Beam Theory, Thin-Walled Structures, V. 42, N. 10, pp. 1495-1517.
- Simão, P., Simões da Silva, L. (2004b), A numerical scheme for post-buckling analysis of thin-walled members in the context of GBT, in: Proceedings of the International Conference on Computational and Experimental Engineering and Sciences, Funchal, Madeira, pp. 2079-2086.
- N. Lopes, L. Simoes da Silva, P.M.M. Vila Real and P. Piloto, “New proposals for the design of steel beam-columns in case of fire, including a new approach for the lateral–torsional buckling”, Computers and Structures, Vol. 82, pp 1463-1472, 2004
- Simão, P., Simões da Silva, L. (2004): An extended GBT formulation for the geometrically non-linear analysis of prismatic thin-walled cross-section members, submitted to the International Journal of Solids and Structures.
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- Simão, P., Simões da Silva, L. (2005b), Análise pós-encurvadura de secções I de paredes finas no contexto da

GBT, in: Proceedings da Conferência Métodos Numéricos en Ingeniería 2005, Granada, Espanha, pp. 141 (abstract) and CD-Rom (full paper).

P. Simão, P. Simões da Silva, L. (2005c), Post-Buckling Analysis of Thin-Walled Channel Columns in the Framework of the Generalized Beam Theory, in Proceedings of the Tenth International Conference on Civil, Structural and Environmental Engineering Computing, B.H.V. Topping, (Editor), Civil-Comp Press, Stirling, United Kingdom, paper n. 38.

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