

5. Publication list

TNO Built Environment & Geosciences, BU GeoEnergy

Papers and abstracts

Orlic, B.,

Some geomechanical aspects of geological CO₂ sequestration, KSCE Journal of Civil Engineering, Korean Society of Civil Engineers, Springer, 2009, Vol. 13, No. 4, pg. 225-232.

Orlic, B.,

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Reports

Hofstee, C., Benedictus, T., ter Heege, J., Huilbregtse, J., van der Meer, B.,

Nelskamp, S., Orlic, B., Plymaekers, M., Tambach. T.,

Feasibility of CO₂ Storage in the Friesland platform (part of the report on Geomechanical evaluation), TNO report 034-UT-2009-01084, 2009(confidential)

TNO DIANA BV

C.M. Frissen,

Analyses ULS behaviour and ULS capacity bridge Heteren fase 3: Plane stress model, TNO report 2009-DIANA-R001. 20 April 2009, 177 pp., CONFIDENTIAL

T. Rahman, E.L. Jansen,

A Finite Element Based Perturbation Method for Dynamic Buckling Analysis of Shell Structures, 50th AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics, and Materials Conference
17th ,4 - 7 May 2009, Palm Springs, California, 13 pp.

T. Rahman, E.L. Jansen,

Finite Element Based Multi-Mode Initial Post-buckling Analysis of Composite Cylindrical Shells, Thin-Walled Structures, Volume 48, Issue 1, January 2010, pg. 25-32.

T. Tahman, E.l. Jansen, P. Tiso,

A FINITE ELEMENT BASED PERTURBATION METHOD FOR NONLINEAR FREE VIBRATION OF COMPOSITE CYLINDRICAL SHELLS, Proceedings of the ASME 2009 International Mechanical Engineering Congress & Exposition IMECE2009, November 13-19, 2009, Lake Buena Vista, Florida, USA

T. Rahman, S.T. IJsselmuiden, M.M. Abdalla, E.L. Jansen

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Finite element based coupled mode initial post-buckling analysis of a composite cylindrical shell, *Thin-Walled Structures*, 2010, vol. 48, no1, pg. 25-32

University Minho

Book Chapters / Invited lectures

Lourenço, P.B.,

Recent advances in masonry structures: Micromodelling and homogenisation, em: *Multiscale Modeling in Solid Mechanics: Computational Approaches*, Eds. U. Galvanetto, M.H. Ferri Aliabadi, Imperial College Press, pg. 251-294 (2009)

Lourenço, P.B., Mendes, N., Marques, R.,

Earthquake design and assessment of masonry structures: Review and applications, em: *Trends in Civil and Structural Engineering Computing*, Eds. B.H.V. Topping, L.F. Costa Neves, R.C. Barros, Saxe-Coburg Publications, pg. 77-101 (2009)

Lourenço, P.B., Ramos, L.F., Krakowiak, K.J.,

Cathedral of Porto, Portugal: Conservation works 2003-2008, *Proceedings of 11th Canadian Masonry Symposium*, May 31-June 3, Toronto, Ontario, Canada, CD-ROM, 20 pp. (2009)

International Journals

Amado, M., Lourenço, P.B., Peña, F.,

Virtual reconstruction of Medieval monastery using Computer-Aided Design model, *Journal of Architectural Engineering*, ASCE, 15(4), pg. 131-138 (2009)

Milani, G., Lourenço, P.B., Tralli, A.,

Homogenized rigid-plastic model for masonry walls subjected to impact, *International Journal of Solids and Structures*, 46(22-23), pg. 4133-4149 (2009)

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Senthivel, R., Lourenço, P.B.,

Finite element modelling of deformation characteristics of historical stone masonry shear walls, *Engineering Structures*, 31(9), pg. 1930-1943 (2009)

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Experimental characterization of stone masonry in shear and compression, *Construction and Building Materials*, 23(11), pg. 3337-3345 (2009)

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Milani, G., Lourenço, P.B.,
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International Journal for Multiscale Computational Engineering, 7(2), pg. 91-113
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Zucchini, A., Lourenço, P.B.,
Validation of a micro-mechanical homogenisation model: Application to shear walls,
International Journal of Solids and Structures, 46(3-4), pg. 871-886 (2009)

Milani, G., Lourenço, P.B.,
A simple discontinuous upper bound limit analysis approach with sequential linear
programming mesh adaptation, International Journal of Mechanical Sciences, 51(1),
pg. 89-104 (2009)

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Marques, R., Gouveia, J.P., Lourenço, P.B. and Leão, C.,
Development of design software for plain masonry buildings, Proceedings of the
Twelfth International Conference on Civil, Structural and Environmental Engineering
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Mendes, N., Lourenço, P.B.,
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Proceedings of the 11th Canadian Masonry Symposium, May 31-June 3, Toronto,
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Masonry infills and earthquakes, Proceedings of the 11th Canadian Masonry
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tensile strength of masonry, Proceedings of Materiais 2009, April 5-8, Lisboa, CD-
ROM, 6 pp (2009).

Eindhoven University

P.A. Teeuwen,
LATERAL BEHAVIOR OF STEEL FRAMES WITH DISCRETELY CONNECTED
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6814-622-6, Nov. 2009, 211 pp.

E.L.Klamer,
INFLUENCE OF TEMPERATURE ON CONCRETE BEAMS STRENGTHENED
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E.M.P. Huveners, F. van Herwijnen, F. Soetens, H. Hofmeyer,
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RWS Centre for Infrastructure & Delft University of Technology

A de Boer, C. van der Veen,
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A. de Boer, C.M. Frissen,
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A. de Boer, "How to come to an acceptable Unity Check index for existing concrete
structures in infrastructure", Workshop Existing structures, *fib SAG7*, Torino, Italy,
October 2009

A. de Boer, "Unity checks and probabilistic analysis", JCSS Workshop, Delft,
December 2009