

## REFERENCES

Ali S. & Page A.W. (1989). Cracking analysis of solid concrete masonry subjected to concentrated loads. *ACI Structural Journal, Volume 86*, PP 367-375.

ANSYS Contact technology guide. (2007). *Documentation for ANSYS 11.0*, ANSYS Inc.

ANSYS Structural analysis guide. (2007). *Documentation for ANSYS 11.0*, ANSYS Inc.

ANSYS Thermal analysis guide. (2007). *Documentation for ANSYS 11.0*, ANSYS Inc.

 University of Moratuwa, Sri Lanka  
ANSYS Theory reference (2007). *Documentation for ANSYS 11.0*, ANSYS Inc.  
Electronic Theses & Dissertations  
[www.lib.mrt.ac.lk](http://www.lib.mrt.ac.lk)

Armin B.M. & Shing P.B. (1997). Finite element modelling of masonry-infilled RC frames. *ASCE Journal of Structural Engineering, Volume 123*, pp 604-613.

Athanasiou D.T. (2003). Finite element modelling of cracks and joints in discontinuous structural systems. *Proceedings of 16<sup>th</sup> ASCE Engineering Mechanics Conference*, University of Washington, sEATTLE.

Ayala D.F.D. (1998). Numerical modelling of masonry structures reinforced or repaired. *Computer Methods in Structural Masonry, Volume 4*, pp. 161-168.

Bechara E.A., Ahamed A.H. & Harry G.H. (1990). Small scale modelling of concrete block masonry structures. *ACI Structural Journal, Volume 87*, pp 145-155.

Bhushan L.K. (1995). *Fracture Mechanics and Structural Concrete*, Longman Group Ltd., Longman House, Burnt Hill, England.

- BIC Alliance (2002). Thermal effects on concrete behaviour. *Structural Group*, [www.structural.net](http://www.structural.net).
- Bicanic N., Stirling C. & Pearce C.J. (2000). Discontinuous modelling of structural masonry. *Fifth World Congress on Computational Mechanics*, Viana, Australia.
- Brookes C.L. & Swift R.J.R. (2002). Numerical modelling of masonry to explore the performance of anchor based repair systems and the repair of monuments in Cairo. Gifford and Partners, UK.
- Carpinteri A., Invernizzi S. & Lacidogna G. (2005). In situ damage assessment and nonlinear modelling of a historical masonry tower. *Engineering Structures*, Volume 27, pp 387 – 395.
- Chong V.L., May I.M., Southcombe C. & Ma S.Y.A. (1991). An investigation of laterally loaded masonry panels using non-linear finite element analysis. *Computer Methods in Structural Masonry* (Eds. J. Middleton and G.N. Pande), Books and Journals International Ltd., UK, pp. 114 -123.
- Gajanan M.S., Harry G.H., Richard N.W. & Mirza M.S. (1983). Structural modelling and experimental techniques. Prentice hall, Inc., Englewood Cliffs, USA.
- Guinea G.V., Hussein G., Elices M. & Planas J. (2000). Micromechanical modelling of brick- masonry fracture. *Cement and Concrete Research*, Volume 30, pp731-737.
- Gouwei Ma, Hong Hao & Yong Lu (2001). Homogenization of masonry using numerical simulations. *ASCE Journal of Engineering Mechanics*, Volume 127, No 5, pp 421-431.
- Hamid R.L. & Shing P.B. (1991). An appraisal of smeared crack models for masonry shear wall analysis. *Computers and Structures*, Volume 41, pp 413-425.



- Hamid R. L & Shing P.B. (1994). Interface model applied to fracture of masonry structures. *ASCE Journal of Structural Engineering, Volume 120*, pp 63-80.
- Henderson R.C., Fricke K.E., Jones W.D., Beavers J.E. & Bennett R.M. (2003). Summary of a large and small scale unreinforced masonry infill test program. *ASCE Journal of Structural Engineering, Volume 129*, pp 1667-1675.
- Helen M.S., Knight G.M.S. & Muthumani K. (2005). Evaluation of seismic performance of gravity load designs concrete frames. *ASCE Journal of Performance of Constructed Facilities, Volume 19*, pp 277-287.
- Hendry A.W. (1990). *Structural Masonry*, Macmillan, London.
- Hendry A.W. & Malek M H (1986). Characteristic compressive strength of brickwork from collected test results. *Masonry International, Volume 7*, pp 15-24.
-  University of Moratuwa, Sri Lanka  
Electronic Theses & Dissertations  
[www.lib.mrt.ac.lk](http://www.lib.mrt.ac.lk)
- Hughes T.G. and Kitching N. (2000). Small scale testing of masonry. *12<sup>th</sup> IBMaC*, Madrid, Spain.
- Ibrahim K.S. & Suter G.T. (June1990). Finite element study of thermal stresses in low-rise concrete masonry walls. *Proceedings of Fifth North American Masonry Conference*, University of Illinois, Urbana-Champaign, USA.
- Jayasinghe M.T.R. (1997). Load bearing brickwork construction for Sri Lanka. STRAD Consultants (Pvt)Ltd, Colombo, Sri Lanka.
- Jayasinghe M.T.R. & Jayatunga P.T.P. (1998). Guidelines for framed buildings braced with brick wall infills. *Transactions - Part 2- Institution of Engineers, Sri Lanka*, pp 45 - 57.

- Lee J.S., Pande G. N., Middleton J. & Kralj B. (1996). Numerical modelling of brick masonry panels subject to lateral loadings. *Computers & Structures, Volume 61, No 4*, pp 735-745
- Lourenco P.B., Borst De R. & Rots J.G. (1997). A plane stress softening plasticity model for orthotropic materials. *International Journal for Numerical Methods in Engineering, Volume 40*, pp 4033 – 4057.
- Lourenco P.B. & Rots J.G. (1997). Multisurface interface model for analysis of masonry structures. *Journal of Engineering Mechanics, Volume 123*, pp 660-668.
- Lourenco P.B. (1998). Sensitivity analysis of masonry structures. *Proceedings of 8th Canadian Masonry Symposium*, Jasper, Canada
- Lourenco P.B., Rots J.G. & Johan B. (1998). Continuum model for masonry: parameter estimation and validation. *ASCE Journal of Structural Engineering, Volume 124*, pp 642-652. [www.lib.mrt.ac.lk](http://www.lib.mrt.ac.lk)
- Lourenco P.B. (1999). Historical structures: Models and modelling. <http://www.civil.uminho.pt/masonry/publications/update-webpage/1999-lourenco.pdf>.
- Lourenco P.B. (2000). Anisotropic softening model for masonry plates and shells. *ASCE Journal of Structural Engineering, Volume 126*, pp 1008 – 1016.
- Mark J.M., Peter W.K. & Robert E.M. (2004). Modelling Soil/Structure interaction for masonry structures. *ASCE Journal of Structural Engineering, Volume 130*, pp 641-649.
- Martini K. (1997). Finite Element Studies in the Out-of-Plane Failure of Unreinforced Masonry. *Proceedings of the 7<sup>th</sup> International Conference on Computing in Civil and Building Engineering*, Seoul, Korea.

- Middleton J., Pande G.N., Liang J.X. & Kralj B. (1991). Some recent advances in computer methods in structural masonry. In: *Computer Methods in Structural Masonry*. (Eds: Middleton J. and Pande G.N.) pp. 1-21, Books and Journals international Ltd., UK.
- NW-IALAD. (2005). Constitutive models for joints/interfaces. *Integrity Assessment of Large Concrete Dam*, [www.nw-ialad.uibk.ac.at](http://www.nw-ialad.uibk.ac.at).
- Page A.W. (1980). An experimental investigation of the biaxial strength of masonry. *Proceedings of the Sixth International Brick Masonry Conference*, Rome
- Pande G.N., Liang J.X. & Middleton J. (1989). Equivalent elastic moduli for brick masonry. *Computers and Geotechnics*, Volume 8, pp 243-265.
- Pande G.N., Kralj B. & Middleton J. (1994). Analysis of the compressive strength of masonry. *Journal of Structural Engineering*, Volume 71, pp 7-12.
- Paul J.F. & Thomas E.B. (2001). Three dimensional modelling and full scale testing of stone arch bridges. *Computers and Structures*, Volume 79, pp 2645 – 2662.
- Rahman A.H. & Suter G.T. (1993). An analytical study of extreme temperatures in masonry building walls. *Masonry International*, Volume 6, pp 89-95.
- Rots J.G. (1991). Computer simulation of masonry fracture: continuum and discontinuum models. *Computer Methods in Structural Masonry* (Eds. Middleton J. and Pande G.N.) pp. 114 -123, Books and Journals international Ltd., UK
- Rots J.G. (1997). Numerical models in DIANA. In : Structural masonry – an experimental/numerical basis for practical design rules. (Ed. Rots J.G.) pp. 46-95, A.A. Balkem publishers, Rotterdam, Netherlands.

- Sager V. & Holla L. (1994). The numerical analysis of brick structures subject to mine subsidence. *Australian Civil Engineering Transactions, Volume CE36*, IEAus.
- Samarasinghe W. (1980). The in-plane failure of brickwork. *PhD thesis*, University of Edinburgh, UK.
- SAP2000 analysis reference manual. (2002) *Computers and Structures, INC*, Berkeley, California, USA.
- Senthivel R. & Uzoegbo H.C. (2004). Failure criterion of reinforced masonry under biaxial pseudo dynamic loading. *Journal of South African Institution of Civil Engineering, Volume 46*, pp 20-24.
- Song Y. & Kawakami H. (2002). Three-dimensional rigid body analysis and simulation with viscoelastic binders. *EJGE papers*, [www.ejge.com](http://www.ejge.com).
-  University of Moratuwa, Sri Lanka  
Electronic Theses & Dissertations
- Syrmakezis C.A. & Asteris P.Gm(2001) Masonry failure criterion under biaxial stress state. *Journal of Materials in Civil Engineering. Volume 13. Issue 1.* pp 58-64.
- Syrmakezis C.A., Antonopoulos A.K. & Mavruli O.A. (2005). Analysis of historical masonry structures using three-dimensional solid elements. *Proceedings of the Tenth International Conference on Civil, Structural and Environmental Engineering Computing.* (Ed. Topping B.H.V.) Paper 189, Civil-Comp press, Stirling, Scotland.
- Wilson E. L. (2002). Three dimensional static and dynamic analysis of structures. *Computers and Structures, INC*, Berkeley, California, USA.