

References

Alfred, B 1984, 'Understanding stabilized earth construction', ISBN: 0-86619-210-8 [C] 1984, *Volunteers in Technical Assistance*, viewed 22 December 2010.
http://www.cd3wd.com/cd3wd_40/vita/staberth/en/staberth.htm

Andrew, O. 1992, *Structural design of masonry*, 2nd edn, Longman Group UK Limited, United Kingdom.

Arandara, K. P. & Jayasinghe, C. October-2007, 'Identification of Durability problem in earth building', *ENGINEER Journal of the Institution of Engineers, Sri Lanka*, vol. xxxx. no.04, Sri Lanka, pp.14-21.

Arandara, K. P. & Jayasinghe, C. 2008, 'Surface coating for stabilized earth walls', *Transaction of the Institution of Engineers, Sri Lanka*, vol. 1-Part B, Sri Lanka, pp.20-30.

Auroville Building Centre, *Building with earth in Auroville, / Earth Unit in 1989*.

Becky, L. & Morton, T. 2001, *Building with earth in Scotland: Innovative design and sustainability*, Scottish Executive Central Research Unit,

Bruce, K. 2000, 'A brief introduction to stabilized earth construction', edited by Lynne Elizabeth and Cussandra Adams, John Wiley & Sons.



University of Moratuwa, Sri Lanka.
Electronic Theses & Dissertations
www.lib.mrt.ac.lk

Commission International Grands Barrages (CIGB) Bulletin 54-1986, *Soil – cement for embankment dams*, CIGB, Paris.

Dayananda, J. S. 2007, *Cost effective construction materials and methods*, Thesis, Master of Science in Engineering, Department of Civil Engineering, University of Moratuwa, Sri Lanka, pp. 7-11, 36,63 & 66.

Delgado, M. C. J. & Guerrero, I. C. 2005, 'The selection of soils for unstabilised earth building: A normative review', *Construction and Building Materials 21 (2007)*, pp.237–251, Spain

Department of Buildings, Sri Lanka *Building Schedule of Rates: 1983*, Department of Buildings, Sri Lanka.

Derek Seward, 2007, *Understanding structures*, 2nd edn

Dissanayake, T. A., Dissanayake, U. I., Ranaweera, M. P. & Kulasinghe, A. N. S. 2003, 'Behaviour of low cost slip-form load bearing wall panels under in-plane compressive loading', *Annual Transaction of Institution of Engineers, Sri Lanka 2003*, Sri Lanka. pp. 46 – 53.

'Earth Building' (n.d.), viewed 27 March 2005,
<http://www.earthbuilding.org.nz>

Emmanuel, R. 2004, 'Estimating the environmental suitability of wall materials: preliminary results from Sri Lanka', *Science Direct, Building and Environment 39(2004)*, pp. 1253-1261.

'Empirical design of concrete masonry walls', 2001, National Concrete Masonry Association, TEK 14-8A, Virginia.

Energy and Environmental Research Center, *Technical evaluation of rammed earth building products*, viewed 19 November 2004.
dphassett@eerc.und.nodak.edu.

Fivos Sargentisi, G. & Kapsalis, V. C. & Symeonidis, N 2009, 'Earth building, models, technical aspects, test and environmental evaluation', *11th International Conference on Environmental Science and Technology, 3-5 September 2009, Greece*.

Graeme, N. *Mud brick and cob and earth building standards*, New Zealand.
www.ecodesign.co.nz

Hendry, A.W. 1981, *Structural brick work*, Macmillian press Ltd, Hongkong.

Hendry, A. W., Sinha, B. P. & Daries, S. R. 1992, 3rd edn, *Design of masonry structures*, Department of Civil Engineering, University Edinburgh, United Kingdom.

Hendry, A. W. 1998, *Structural masonry*, 2nd edn, Macmillian press Ltd, Hongkong.

Jaquin, P. 2006, 'Analysis of historic rammed earth construction', *9th Young Geotechnical Engineers Conference 2006*, New Delhi.

Jayasinghe, C. 1999, *Alternative building material and methods to Sri lanka*, Sri Lanka.

Jayasinghe, C. & Perera, A. A. D. A. J. 1999, 'Studies on load bearing characteristics of cement stabilized soil blocks', *Transactions 1999-The Institution of Engineers, Sri Lanka*, vol. 1 – Part B, Sri Lanka, pp. 63-72.

Jayasinghe, C. & Perera, A. A. D. A. J. 2001, 'Hand mould cement stabilized soil blocks as a walling material', *Transaction 2001-The Institution of Engineers, Sri Lanka*, vol. 1- Part B, Sri Lanka. pp. 186-194.

Jayasinghe, C. April-2007, 'Comparative performances of burnt clay bricks and compressed stabilized earth bricks and blocks', *ENGINEER Journal of the Institution of Engineers, Sri Lanka*, vol. xxxx, no.02, Sri Lanka, pp.33-40.

Jayasinghe, C. & Kamaladasa, N. July-2005, 'Structural properties of cement stabilized rammed earth', *ENGINEER Journal of the Institution of Engineers, Sri Lanka*, vol. xxxviii. no.03, Sri Lanka, pp.23-30.

Jayasinghe, C. & Kamaladasa, N. 2006, 'Compressive strength characteristics of cement stabilized rammed earth walls' *Science Direct, Construction and Building materials 21 (2007)*, pp. 1971-1976

Jayasinghe, C. & Konthesingha, K. M. C. 2008, 'Effect of tie beams on lateral strength of masonry', *Transaction of the Institution of Engineers, Sri Lanka*, vol. 1-Part B, Sri Lanka, pp.31-37.

Jayasinghe, G. S. S. K. 2007, '*Information system for cost effective construction methods and materials*' Thesis submitted in partial fulfillment of degree of Master of Science in project management, department of Civil engineering, University of Moratuwa.  www.lib.mrt.ac.lk

John, S. Gero, & Henry, J. C. *Design of building frames*

Kamaladasa N. & Jayasinghe, C. 2005, 'Development of efficient construction technique for rammed earth', *ENGINEER-2005, Annual Transaction of Institution of Engineers, Sri Lanka*, Sri Lanka.

Kumar, A. 1985, *Stability theory of structures*, Civil Engineering Department, Indian Institution of Technology, Kanpur.

Little, B. & Morton, T 2001, *Building with earth in Scotland: Innovative design and sustainability*, Scottish Executive central Research Unit, Edinburgh.

Malcolm M., 1997, *Building structures*,

Mallawaarachchi, R. S. & Jayasinghe, C. 2008, 'The effect of cyclones, tsunami and earthquakes on built environments and strategies of reduced damage', *General Article, Journal of National Science Foundation of Sri Lanka 36(1)*, pp. 03-14.

Matthew, R. H. 2007, 'Assessing the environmental performance of stabilized rammed earth walls using a climatic situation chamber', *Science Direct, Building and Environment* 42, pp. 139-145.

Megson T. H. G. 1987, *Strength of materials, normal forces, shear forces, bending moment and torsion*, 2nd edn, Arnold (Publishers) Ltd, London.

Ministry of Local Government, Housing and Construction 1980, *Design of buildings for high winds, Sri Lanka*, Sri Lanka, pp. 4-14 & 59.

Morton, T. 2005, 'Unfired earth brick building', BFF Autumn, viewed www.newbuilder.co.uk/bffmag

Mud Architecture, Earth materials Guidelines, viewed 27 March 2005, http://www.anangpur.com/mud_arch3.html.

Newberry, C. W. & Eaton, K. J. *Wind load hand book*, Building research establishment, Watford.

Perera, A. A. D. A. J. & Jayasinghe, C. 2003, 'Strength characteristics and structural design of methods for compressed earth block walls', *Masonry International*, 16(1), pp. 34-38.

Peter, W. ( *Design analysis of masonry structures*, Department of Architecture and Civil Engineering, University of Bath, United Kingdom. www.hb.hut.ac.uk

'Practical design of masonry structures' 1987, Institution of Civil Engineers symposium, 23-24 September 1986, London.

Reddy, B. V. V. & Kumar, P. P. 2009, *Compressive strength and elastic properties of stabilized rammed earth and masonry*, Department of Civil engineering, Indian Institute of Science, Bangalore.

Richard, N. W., Peter, G. & Robert, G. S. *Structural Engineering, Behavior of members and system*

Robert, O. 1993, 'A Traditional research paper, rammed earth construction', viewed 7 January 2011, <http://webs.ashlandctc.org/jnapora/hum-faculty/syllabi/trad.html>.

Schroeder, I. S. 2003, 'Building with earth in Iran', 9th *International Conference on the Study and Conservation of Earthen Architecture*, 29th November – 2nd December 2003, Iran.

Siriwardena, C. S. A., Wickramarachchi W. A. C. N., Arandara K. P. & Samuddhika K. P. 2006, *Flexural and shrinkage properties of rammed earth*, Project report, Degree of Bachelor of Science, Department of Civil Engineering, University of Moratuwa, Sri Lanka, pp. 16-22, 30, 32-50.

Society of Structural Engineers, October 2005, *Guidelines for buildings at risk from natural disaster*, Sri Lanka, pp. 15-17.

Steve B. 2009, 'Recommendations for the selection and stabilization of soil for rammed earth wall construction', *Proceedings of the International Conference on Non-Conventional Materials and Technologies (NOCMAT 2009)*, 6-9 September 2009, Bath, United Kingdom.

Steyn, J. J. 2003, *The process of testing community's acceptability of high quality earth constructed building methods as a means to support local economic development*, Urban and Regional planning, University of the Free State, Bloemfontein.

Susan, M. F. 2006, 'Masonry: Design method choice', Northwest Concrete Masonry Association (NWCMA) June - 2006, Suite.

Taylor, P., Fuller, R. J. & Luther, M. B. 2007, 'Energy use and thermal comfort in a rammed earth office building', *Science Direct, Energy and Building 40* (2008), pp. 793-800.



University of Moratuwa, Sri Lanka
Electronic Theses & Dissertations
www.lib.mrt.ac.lk

'Technology for architects' keen on low energy design, Rammed earth is going main stream as a result of its insulation and sustainability properties', viewed 13 May 2006, www.bdonline.co.uk

The British Standards Institution 1972, *British standard: Code of basic data for the design of buildings, Chapter V. Loading, Part 2. (BS CP3: Chapter. V: Part 2: September-1972): Wind loads*, London.

The British Standards Institution 1988, *British standard: loading for buildings, (BS 6399 part 3-1988): Code of practice for imposed roof loads*, London.

The British Standards Institution 1996, *British standard: loading for buildings, (BS 6399 part 1-1996), Code of practice for dead and imposed loads*, 2 edn, United Kingdom.

The British Standards Institution 1999, *British standard: methods of testing for masonry (BS EN 1052-1 part1-1999): determination of compressive strength*, London.

The British Standards Institution 2005, *British standard: Code of practice for the use of masonry – Part 1: Structural use of unreinforced masonry, (BS 25628 part 1- 2005)*, London.

Tisseverasinghe, A. E. K 1971, *A manual of timber utilization for Ceylon*, The Ceylon Forest Department, Sri Lanka, p. 81

Vasilios, M. & Walker P. 2003, *A Review of Rammed Earth Construction*, Natural Building Technology Group, Department of Architecture & Civil Engineering, University of Bath, United Kingdom.

Walker, P. 2005, *Rammed earth: design and construction guidelines*, BRE Book shop, Great Britain.



University of Moratuwa, Sri Lanka.
Electronic Theses & Dissertations
www.lib.mrt.ac.lk