List of references

Abayakoon, S.B.S., (1998), "Seismic response of low lying areas in Colombo. Sri Lanka", *Engineer,* Journal of Institution of Engineers Sri Lanka, vol xxviii, No – 2, pp 29 – 36.

Abbott, P.L., (1996), *"Natural Disasters"*, San Diego State University, Wm. C. Brown Publications, United States of America, 439 p.

Abeysinghe, A.M.K.B., Iwao, Y., Saito, A., Bandara, R.M.S., (2003), "Hazard and risk assessment in landslide prone hill country of Sri Lanka", *Journal of Sri Lankan Geotechnical Society (SLGS)*, (paper accepted on 25.08.2003).

Ahamed, G., Murat, S., Ioan, N., (2005) "The impact of the 26 December 2004 earthquake and tsunami on structures and infrastructure", *Journal of Engineering Structures,* Elsevier Ltd., September.

Ahmad, A. H., Chandrakeerthy, R.S., Omar, A.E., (1992), "Flexural tensile strength of partially grouted concrete masonry", *Journal of Structural Engineering,* American Society of Civil Engineers, Vol. 118, No. 12, December.

Anand, K.B., Vasudevan, V., Ramamurthy, K., (2003) "Water permeability assessment of alternative masonry systems", *Building and Environment* 38, pp. 947-957.

Ankush, A., (2007), "Cyclone resistant building architecture", *Disaster risk management programme*, UNDP, March, 22 p.

Arandara, K.P., Jayasinghe, C., (2008), "Surface coatings for stabilized earth walls", *Transactions of the Institution of Engineers Sri Lanka - 2008,* The Institution of Engineers, Sri Lanka.

Arya, A.S., (2000), "Guidelines for reconstruction of building in cyclone affected areas in Orissa", *Housing and Urban Development Cooperation limited (HUDCO)*, January, 45 p.

Arya, A.S., (2005), "Guidelines for Earthquake resistant reconstruction and new construction of masonry buildings in Jammu & Kashmir state", *GoI-UNDP DRM Programme*, Ministry of home affairs, Government of India, October, 36 p.

A.S.1170 (1989), "Minimum design loads on structures; Part 2: Wind Loads" *Standards Australia*, New South Wales, Australia.

Australian Geomechanics Society (2007a), "Guideline for landslide susceptibility, hazard and risk zoning for land use planning", *Journal and news of the Australian Geomechanics society*, Vol. 42, No. 1, March, 36 p.

Australian Geomechanics Society (2007b), "Practise note guidelines for landslide risk management 2007", *Journal and news of the Australian Geomechanics society*, Vol. 42, No. 1, March, 115 p.

Bryan, A.J., (1988a), "Criteria for the suitability of soil for cement stabilization", *Building and environment*, Vol 23, No 4, pp 309- 320.

Bryan, A.J., (1988b) "Soil/ cement as a walling material -1, stress strain properties", *Building and environment*, Vol 23, No 4, pp 321- 330.

Bryan, A.J., (1988c) "Soil/ cement as a walling material -2, some measures of durability", *Building and environment*, Vol 23, No 4, pp 331- 336.

Brzev, S., (2007), "Earthquake resistant confined masonry construction", *National Information Center of Earthquake Engineering (NICEE)*, Indian Institute of Technology, Kanpur, Kanpur, India, December.

BS 5628: Part 1: 1992, "Code of practice for use of Masonry", Part 1. Structural use of un-reinforced masonry, *BSI, London*, United Kingdom.

Building Materials and technology promotion Council (1999-2000), "Guidelines: Improving Earthquake resistance of Housing", *Ministry of Urban Development and Poverty Alleviation, Department of Urban Employment and Poverty Alleviation,* Government of India, New Delhi, 69 p.

Chandrakeerthy, S.R.De S., (1996), "Guidelines for Proportioning Asbestos Sheeted Timber Roof Structures", *Transactions of the Institution of Engineers, Sri Lanka,* Vol i, pp143-165, October.

Chandrakeerthy S.R.De.S. (1997) "Development of guidelines for proportioning of calicut tiled timber roof structures", *Transactions of the Institution of Engineers Sri Lanka,* Institution of Engineers Sri Lanka, Vol i, pp 5-31, October.

Chandrakeerthy, S.R.De S., (1998), "A study of random rubble masonry construction in Sri Lanka", *Transactions of the Institution of Engineers Sri Lanka,* Institution of Engineers Sri Lanka, Vol 1- Part B, pp 124- 149.

Clarke, A.G., Swane, R.A., Schneider, L.M., Shaw, P.J.R., (1979), "Technical Assistance to Sri Lanka on Cyclone resistant construction-Project Summary", *Commonwealth of Australia, Department of Housing and Construction for Australian Development Assistance Bureau,* Vol-1, Part 1-4, October.

Cochran, L., (2000), "Wind engineering as related to tropical cyclones", *Storms, Volume 1*, ROUTLEDGE, London and New York, pp. 242-259.

Cook, N.J., (1985), "The designer's guide to wind loading of building structures", *Part 1, Building Research Establishment,* Butterworths, London, 371 p.

Craig, R.R., (1981), *"Structural dynamics"*, John Wiley & Sons, Inc.

Curtin, W.G., Shaw, G., Beck, G.K., Bray, W.A., (1983), "Load bearing brickwork cross wall construction", *The Brick Development Association,* Woodside House, Berkshire.

Datum International, Web site URL: http://www.datum.gn.apc.org/index.html , last accessed on 21.07.2008.

Department of Census and Statistics, "Report on Post Tsunami recovery: Issues and challenges in Sri Lanka", (2005), *Department of census and statistics*, Maitland Crescent, Colombo 7, Sri Lanka.

Department of Meteorology, Sri Lanka, "Lightning", *Weather Products and Publications*, No. 383, Bauddhaloka Mawatha, Colombo 07.

Disaster Management Centre official web site, URL: http://www.dmc.gov.lk/natural_harzards.html#d , last accessed on 10.09.2008.

Dias, W.P.S., Dissanayake, P.B.R., Chandrathilake, R., (2006), "Lessons learned from Tsunami damage in Sri Lanka", *Proceedings of ICE, Institution of Civil Engineers UK*, pp 74-81, May.

Dinesh, B. P., Devraj, B. P., Khimji, P., (2001), "Gujarat Relief Engineering Advise Team (GREAT)", *Repair and strengthen guide for earthquake damaged low rise domestic buildings in Gujarat,* GREAT publication, June, India.

Dowrick, D.J., (1977), *"Earthquake resistant design"*, John Wiley & Sons, Great Britain, 373 p.

Federal Emergency Management Agency (1981), "Design guidelines for flood damage reduction, FEMA 15", *The American Institute of Architects Foundation,* 1735, New York Avenue, Washington D.C., December, 94 p.

Federal Emergency Management Agency (1984), "Elevated Residential Structures, FEMA 54", *The American Institute of Architects Foundation*, 1735, New York Avenue, Washington D.C., March, 137 p.

Federal Emergency Management Agency (2004), "Risk management series, Design guide for improving school safety in earthquakes, floods and high winds, FEMA 424", *The American Institute of Architects Foundation*, 1735, New York Avenue, Washington D.C., January, 361 p.

Federal Emergency Management Agency (2007), "Risk Management series, Design guide for improving hospital safety in earthquakes, floods and high winds, FEMA 577", *The American Institute of Architects Foundation*, 1735, New York Avenue, Washington D.C., June, 398 p.

Fernando, J.H., Braun, A., Glappatti, R., Ruwanpura, J., Wirasinghe, S.C., (2006), *"Tsunamis: A Journey through their manifestation and aftermath"* Cambridge University Press, London, United Kingdom, October, 31 p.

Government of Sri Lanka, Official web site, URL: http://www.dmc.gov.lk/natural_harzards.html#d , last accessed in 09.02.2009.

Graybeal, W.T., (1980), *"Simulation, principles and methods"*, Winthrop, Cambridge.

Griffith, M.C., (1991), "Performance of un-reinforced masonry buildings during the Newcastle earthquake, Australia", *Research Report No. R86,* Department of Civil Engineering, University of Adelaide, July, 27 p.

Guillaud, H., Jeffroy, T., Odul, P., (1995), "Compressed earth blocks", Vol 2, CRATerre-EAG, *The International centre for earth construction*, France, 148 p.

Halwatura, R.U., Jayasinghe, M.T.R., (2007), "Cyclone resistant insulated roof slabs", *International Conference on Mitigation of the risk of natural hazards*, University of Peradeniya, Sri Lanka, 27th -28th March.

Harinarayana, T., Naoshi, H., (2005), "Destructive earthquake and tsunami in the Indian Ocean, what next?", *Gondwana Research (Gondwana Newsletter Section),* International Association for Gondwana Research, Japan. Vol. 8, No. 2, pp. 246-257.

Hendry, A.W., (1990), *"Structural Masonry"*, Macmillan education limited, London, United Kingdom.

Horikawa, K., (1988), *"Coastal Engineering"*, University of Tokyo Press.

Houben, H., Guillaud, H., (1989), *"Earth- construction- a comprehensive guide, earth construction series"*, Intermediate technology publications, London, 362 p.

Jaafar, M.S., Thanoon, W.A., Najm, A.M.S., Abdulkar, M.R., Ali, A.A.A., (2006), "Strength correlation between individual block, prism and basic wall panel for loadbearing inter-locking mortar less hollow block masonry", *Construction and building materials* 20 , 492-498.

Jayasinghe, C., (2007a), "Influence of Bond Patterns on Cement Stabilized Earth (CSE) Brick and Block walls", *Journal of the British Masonry Society,* Masonry International, Vol 20. No.3.

Jayasinghe, C., (2007b), "Comparative performance of burnt clay bricks and compressed stabilized earth bricks and bonds", *Engineer,* Journal of Institute of Engineers, Sri Lanka.

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

Jayasinghe, C., Kamaladasa, N., "Structural Properties of cement stabilized rammed earth", *Engineer*, Journal of Institute of Engineers, Sri Lanka, July 2005.

Jayasinghe, C., Mallawaarachchi, R.S.,(2006), "Overall assessment of stabilized rammed earth as a walling material", *World Conference on Accelerating Excellence in Built Environment (WCAEBE 2006),* Birmingham, United Kingdom, 2-4 October, 2006.

Jayasinghe, C., Perera, A. A. D. A. J., (2001), "Hand moulded cement stabilized soil blocks as a walling material", *Transactions of the Institution of Engineers Sri Lanka-2001,* Institution of Engineers Sri Lanka, Sri Lanka, pp 186-194.

Jayasinghe, M. T. R., (1998), "Loadbearing construction with local bricks", *Engineer* , Journal of Institution of Engineers, Sri Lanka, Vol xxvii, No 1, 1998, pp 49-57.

Jayasinghe, M.T.R., (1999), "Foundation improvement techniques for brick wall structures", *Engineer,* Journal of the Institution of Engineers, Sri Lanka, Volume xxx, No.3, September, PP 41-50.

Jayasinghe, M.T.R., Attalage, R.A., (1999), "Passive techniques for residential buildings in low altitudes of Sri Lanka", *Engineer* , Journal of Institution of Engineers, Sri Lanka, Vol xxx, No 2, May, 1999, pp 18-27.

Jayasinghe, M.T.R., Maharachchi, D.P.K, (1998), "Use of reinforced brickwork for crack free loadbearing construction", *Proceedings, Research for Industry - 1998,* Engineering Research Unit, University of Moratuwa, November, pp 38-51.

Jayasinghe, M.T.R., Jayatunga, P.T.P., (1998), "Guidelines for framed buildings braced with brick wall infills", *Transactions of the Institution of Engineers Sri Lanka Part 2,* Institution of Engineers Sri Lanka, Sri Lanka, pp 45–57.

Joint Typhoon Warning Centre (JTWC), (1978), "Annual Typhoon Report-1978", *United States Fleet Weather Central,* Joint Typhoon Warning Centre, Guam, Marina Islands, 177 p.

Joint Typhoon Warning Centre (JTWC) (2000), "Annual Typhoon Report-2000", *United States Fleet Weather Central,* Joint Typhoon Warning Centre, Guam, Marina Islands, 399 p.

Kappos, A.J., (2002), *"Dynamic loading and design of structures"* Spon press, London

Konthasinghe, K.M.C., (2008) "Enhancement of lateral load resistance of houses constructed with loadbearing masonry", *M.Sc. Thesis*, Department of Civil Engineering, University of Moratuwa.

Macks, K.J., Murray, F.J., Witteenoom, R.A., (1979), "Technical Assistance to Sri Lanka on Cyclone resistant construction-Improvement of Building methods for cyclone resistance", *Commonwealth of Australia,* Department of Housing and Construction for Australian Development Assistance Bureau, Vol-2, Part 5, October.

Marcio, R.S.C., Marcio A.R., (2003), "A simple Finite element based model for evaluating the interaction of load bearing walls subjected to vertical loading", *School of Engineering of Sao Carlos*, University of Sao Paulo, Brazil.

Murty, C.V.R., (2002), "Earthquake Tips No. 1-24, Learning Earthquake Design and Construction", *Indian Institute of Technology Kanpur (IITK),* Building Materials and Technology Promotion Council (BMTPC), New Delhi, India, April.

Munich research group (2008), *"Natural catastrophes 2007,* Analyses, assessments, positions", April, 54 p.

National Building Research Organization, NBRO, "Landslide studies and Services division (LSSD)", Web site URL: http://www.nbro.gov.lk/lsdata.htm , last accessed on 21.08.2008.

National Disaster Management Centre, Web site URL: http://www.ndmc.gov.lk , last accessed on: 15.07.2008.

National housing development authority and Ministry of housing and construction (2005), Tsunami disaster housing program, *"Guidelines for housing development in Coastal Sri Lanka",* National Housing Development Authority, Sir. Chittampalam Gardiner Mawatha, Colombo, Sri Lanka, 70 p.

Norton, J., (1986), *"Building with earth- A hand book"*. Intermediate technology publications, London, 68 p.

Orton, A., (1993), *"Structural design of Masonry"*, Longman Singapore publishers (Pvt) Ltd, Singapore.

Perera, A., Jayasinghe, C., (2003), "Strength characteristics and structural design methods for compressed earth block walls", *Masonry International*, The British Masonry Society, United Kingdom, January

Perera, D.F.U., Jayasinghe, M.T.R., (1999), "A comparison of blast and earthquake resistant detailing concepts adopted for reinforced concrete buildings", *Proceedings of symposium, Research for industry - 1999*, University of Moratuwa, December, pp 161-172.

Parry, M.L., Canziani, O.F., Palutikof, J.P., Linden, P.J.V., Hanson, C.E., (2007), "Summary for Policymakers in Climate Change 2007: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change", *Intergovernmental Panel on Climatic Change (IPCC)*, Eds., Cambridge University Press, Cambridge, UK, pp. 7-22.

Revenue administration, disaster management and mitigation department, (2005) *"Guidelines for Reconstruction of houses affected by Tsunami in Tamilnadu"*, Government of Tamilnadu, India, 24 p.

Reddy, B.V.V., (2007), Indian Standard Code of Practice for Manufacture and use of Stabilized mud blocks for masonry, *International Symposium on Earthen Structures*, Bangalore, India, August 2007.

Reddy, B.V., Jagadish, J.S., (1989), "Properties of soil- cement block masonry", *Masonry international*, Vol. 3, No. 2, October, 1989, pp 80- 84.

Reddy, B.V.V., Gupta, A. (2006), "Tensile bond-strength of soil-cement block masonry couplets using cement soil mortars", *Journal of Materials in Civil Engineering, American Society of Civil Engineers*, Vol. 18, No. 1, February 1.

Reddy, V.B.V., Richardson, L., Rao, K. S. N., (2007), "Enhancing bond strength and characteristics of soil-cement block masonry", *Journal of materials in Civil Engineering, American Society of Civil Engineers*, Vol. 19, No. 2, February 1.

Rima, T., (2007), "Design of low rise buildings for extreme wind events", *Journal of Architectural Engineering,* Vol. 13, No. 1, 1st March.

Samarawickrama, S.P., Hettiarachchi, S., (2006), "The Tsunami Hazard in Sri Lanka Strategic Approach for the protection of lives, ecosystems and infrastructure", *Coastal Engineering Journal, Special Issue,* Indian Ocean Tsunami, JSCE.

Samarawickrama, S.P., Hettiarachchi, S.S.L., Fernando, H., (2006) "Indian Ocean Tsunami on the Sri Lankan Coast, Near Shore Processes and the Impact of Coral Removal", *The Second International Workshop on Coastal Disaster Prevention, Tsunami and Storm Surge Mitigation,* Tokyo, Japan.

SAP 2000, (1997), "Integrated finite element analysis and design of structures, Analysis reference", *Computers and structures,* Berkeley, California, USA.

Shanmugasundaram, J., Arunachalam, S., Gomathinayagam, S., Lakshmanan, N., Harikrishna, P., (2000), "Cyclone damage to building and structures-a case study", *Journal of Wind Engineering and industrial Aerodynamics,* pp. 369-380.

Siddle, R.C., Taylor, D., Adger, W.N., Lowe, D.J., De Lange, W.P., Newanham, R.M., Lu, X.X., Dodson, J.R., (2004), "Interactions of natural hazards and society in Austral-Asia: evidence in past and recent records", *Quaternary International*, pp 181-203.

Sinha, B.P., Ng, C.L., Pedreschi, R.F., (1997), "Failure criterion and behaviour of brickwork in biaxial bending", *Journal of Materials in Civil Engineering, American Society of Civil Engineers,* Vol. 9, No. 2, May, 1997.

SLAI, (1978), *"SLS 39: 1978 – Specification for common burnt clay building bricks, (first revision)"*, Bureau of Ceylon Standards, Colombo 3, Sri Lanka.

SLAI, (1989a), *"SLS 855: Part I: 1989 - Specification for cement blocks, Part I, Requirements"*, Sri Lanka Standards Institute, Colombo, Sri Lanka.

SLAI, (1989b), *"SLS 855: Part II: 1989 - Specification for cement blocks, Part II, Test methods"*, Sri Lanka Standards Institute, Colombo, Sri Lanka.

Society of Structural Engineers, (2005), *"Guidelines for buildings at risk from natural disasters"*, Society of Structural Engineers, Sri Lanka, October, 22 p.

Sri Lanka Urban Multi-Hazard Disaster Mitigation Project (SLUMDMP), (2003a) *"Guidelines for construction in landslide prone areas"*, Ministry of housing and plantation infrastructure, March, 22 p.

Sri Lanka Urban Multi-Hazard Disaster Mitigation Project (SLUMDMP), (2003b) "*Guidelines for protection of buildings and safety from Lightning strikes*", Ministry of housing and plantation infrastructure, March, 10 p.

Sri Lanka Urban Multi-Hazard Disaster Mitigation Project (SLUMDMP), (2003c), "Guidelines for settlements planning and construction in flood prone areas", Ministry of housing and plantation infrastructure, March, 10 p.

Stulz, R., Mukerji, K., (1993), "Appropriate building materials; a catalogue of potential solutions", *SKAT, IT Publications (Great Britain) & GATE (Federal Republic of Germany)*, 253 p.

Taylor, P., Luther, M.B., (2004), "Evaluating rammed earth walls", *Journal of the Solar Energy 76*, pp. 79—84.

Thanoon, W.A.M., Jaafar, M.S., Abdulkadir, M.R., Ali, A.A.A., Trikha, D.N., Najm, A.M.S., (2004), "Development of an innovative interlocking loadbearing hollow block system in Malaysia", *Construction and building materials* 18, pp. 445-454.

UNESCO-IOC, (2006a), *"Tsunami Glossary"*, IOC information document No.1221, Paris, UNESCO, 38 p.

UNESCO-IOC, (2006b), *"Tsunami, The Great Waves"*, IOC Brochure 2006-2, Paris, UNESCO, 14 p.

United States Geological Society (USGS), Web site URL: http://neic.usgs.gov/neis/eqlists/eqstats.html , last accessed on 28.07.2008

Wijeratne, M.D., Jayasinghe, M.T.R., (1998), "Wind loads for high-rise buildings constructed in Sri Lanka, *Transactions of the Institution of Engineers Sri Lank – Part 2,* Institution of Engineers Sri Lanka Institution of Engineers, Sri Lanka, pp 58-69

Wijeratne, M.D., Jayasinghe, M.T.R., (1999), "Earthquake resistance of loadbearing brickwork structures", *Proceedings of symposium, Research for industry - 1999*, University of Moratuwa, December, pp 173-188.

Wikipedia, "Trends in Natural disasters", web site URL:http://en.wikipedia.org/wiki/Image:Trends_in_natural_disasters.jpg , last accessed on 29.07.2008

Wimalarathne, K.D., (1993), *"The first earthquake record in Sri Lanka"*, Daily News, 23rd December.

Witteenoom, R.A., Macks, K.J. (1979*), "Technical Assistance to Sri Lanka on Cyclone resistant construction-Design of Buildings for high winds-Sri Lanka"*, Commonwealth of Australia, Department of Housing and Construction for Australian Development Assistance Bureau, Vol-3, Part 6, October

Zubair, L., (2006), "The weather leading to the recent floods and landslides in Sri Lanka", *Sri Lanka Meteorology, Oceanography and Hydrology Network and International Research Institute for Climate Prediction*, Earth Institute at Columbia University, New York, USA

Zubair, L., Ralapanawe, V., Tennakone, U., Yahiya, Z., Perera, R., Arnold, R., Chen, R., Deichmann, U., Dilley, Lerner Lam A., Pullen, R.E., Trohanis, Z., (2006), "Natural Disaster Risks in Sri Lanka: Mapping Hazards and Risk Hotspots", *Chapter*

4, in Eds:, Natural Disaster Hotspots Case Studies, Washington, DC: World Bank, June