

# REFERENCES



University of Moratuwa, Sri Lanka  
Electronic Theses & Dissertations  
[www.lib.mrt.ac.lk](http://www.lib.mrt.ac.lk)

## REFERENCES

- 1) Al-Haussani, and Johnson, L D., "Finite Element analysis of a reinforced earth wall". Technical report S-77, Soils and Pavement Design Laboratory, U.S. Army Engineer Waterways Station, Vicksburg (Miss) May 1977.
- 2) Arthur, J.R.F., James, R.G., and Roscoe, K.H., "The determination of stress fields during plane strain of a sand mass." *Geotechnique*, 14, No 4, 1964, pp 283-308.
- 3) Bacot, J., et al, "Study of The Soil-Reinforcement Friction Coefficient," Proc ASCE Symposium on Earth Reinforcement, Pittsburg, USA, pp 157-185.
- 4) Balla, A., "A new solution of the stress distribution in triaxial compression" *Acta techn hung*, 28, 1960, pp 349-388.
- 5) Bannerjee, P.K., "Principles of Analysis and design of reinforced earth retaining walls". *Journal of the Institution of Highway Engineers*, Jan 1975, pp 14-18.
- 6) Barden, L., and Khyatt, A.J., "Incremental strain rate ratios and strength of sand in the triaxial test.", *Geotechnique* 16,4, 1966, pp 338-357.
- 7) Barnett, S.A., "Recent case histories using minestone in construction of railway embankments in United Kingdom", Proc. Symposium on reclamation, treatment and utilisation of coal mining wastes, University of Durham, 1984, paper No.14, Elsevier Publishers, Amsterdam.



- 8) Barry, D.L. "Material Durability in Aggressive Ground" CIRIA report 98, 1983.
- 9) Bassett, R.H., and Last, N.C., "Reinforcing Earth Below Footings and Embankments". Proc. ASCE symposium on Earth Reinforcement, Pittsburg, Penn (1978) pp 202-231.
- 10) BE3/78 Department of Transport, Technical Memorandum, "Reinforced earth bridge abutments and walls", HMSO, 1978.
- 11) Berezantzev, V.G., Mustafayev, A.A., Sidorov, N.N., Kovalyov, I.V., and Aliev, S.K., "On the strength of some soils," Proceeding of the International conference on soil mechanics and foundation engineering, Mexico, 1969, Vol 1, pp11-19.
- 12) Biarez, J., "Equilibre limite des talus et barrages de terre", Annales de l'I.T.B.T.P. (1965). Sols et Foundation No S1 pp1017-1029.
- 13) Bishop, A.W., "The Stability of Tips and Spoil Heaps Quarterly Journal of Engineering Geology (QJEG), Volume 16, pp335-376, 1973.
- 14) Bishop, A.W., "The strength of soils as engineering materials," The Sixth Rankine Lecture, Geotechnique 1966.
- 15) Bishop, A.W., and Skempton, A.W., "Measurement of Shear Strength of Soil," Geotechnique, 4, No.2, 1950.
- 16) Bishop, A.W., and Henkel, D.J., "The measurement of soil properties in the triaxial test", 2nd edition (reprinted) 1978. Edward Arnold, London, pp 227.

- 17) Black, D.K., and Lee, K.L., "Saturating laboratory samples by back pressure", ASCE journal on soil mechanics and foundation engineering, SM1, Jan 1973, pp 75-93.
- 18) Bland, J.A., "Fitting failure envelopes by the method of least squares", QJEG, Vol 16, 183, pp 143-147, London, England.
- 19) Brady, K.C., "Performance of a reinforced earth bridge abutment at Carmarthen," Department of Transport, TRRL Research Report III, 1987. pp24.
- 20) Bridden, M.A., "The Principle of Reinforced Earth, and Some Laboratory Observed Fill Inclusions Interactions", MSc Dissertation, Advanced Course in Engineering Geology, University of Durham, 1982, pp 57.
- 21) British Standards Institution, "Methods of Test for Soils for Civil Engineering Purposes", BS1377, 1975, pp 143.
- 22) British Standards Institution., "Report on strengthened/ reinforced soils and other fills", PD 6517:1988, BSI, 1988.
- 23) Chang, J.C., Hannan, J.B., and Forsyth, R.A., "Field performance of Earthwork Reinforcement" CA/TL-81/06, California Dept of Transportation, Sacramento, California, 1981.
- 24) Civil Engineering, "Measured Rates", Civil Engineering Sept. 1988, pp 57-63.
- 25) Clough, G.W., and Duncan, J.M., "Finite Element Analysis of Port Allen and Old River Locks". Contract Report S-69-6, U.S. Army Engineer Waterways

- Experiment Station, Vicksburg, Miss (Sept 1969).
- 26) Crowningshield and Gorman "Cost Accounting" Houghton Mifflin Co. 1979, USA, pp 819.
  - 27) D'Appolonia, E., and Newmark, N.M., in the Proc of 1st US National Conference on applied mechanics, American Society of Mechanical Engineers (ASME), 1951.
  - 28) Darbin, M., Jailloux, J.M., and Monteuelle, J., "Performance and Research on the Durability of Reinforced Earth Reinforcing Strips". ASCE, symposium Earth Reinforcement, Pittsburg, Penn (1978), pp 305-333.
  - 29) Darbin, M., Jailloux, J.M., and Montuelle, J., "Durability of Reinforced earth structures: the results of a long-term study conducted on galvanised steel". Proc. Institution of Civil Engineer, s Part 1, 1988, 84, Oct, pp 1029-1057.
  - 30) De Mello, V.F.B., "Reflections On Design Decisions of Practical Significance to Embankment Dams", Geotechnique 27, No.3, 1977, pp 279-355.
  - 31) Department of Transport., "The use of colliery shale as filling material in embankments", H4/74 (withdrawn), DTp, 1974, London.
  - 32) Department of Transport., "Specification for Highway Works, Part 6"., HMSO, London, 1986.
  - 33) Department of Transport., "Reinforced earth retaining walls and bridge abutments for embankments", Technical memorandum. (Bridges)., BE3/78 (revised, 1987), DTp, London, (1987).
  - 34) Desai, C.S., Drumm, E.C., and Zaman, M.M., "Cyclic

- testing and modelling of Interfaces", J., Geotechnical Engineering, ASCE, 1985, IH, No 6. pp793-815.
- 35) Donaghue, R.T., and Townsend, F.C., "Effect of back pressure saturation techniques on Results of Triaxial Compression Tests," WES MP GL-79-12, Vicksburg Mississippi, May 1979.
- 36) Durability of reinforced earth structures: the results of a long term study conducted on galvanised steel, Proc. Institution of Civil Engineers, Part 1, 1988, 84, Oct, pp1029-1057.
- 37) Electricite de France, EDF-SPH, "Conduites Forcees". Enquete du 14/2/1957, 1957.
- 38) EMME Instruction Bulletin for Strain Gauges B129-4, 1976, pp7.
- 39) Endicott, L.J., "The determination of stress fields from plane strain data", Geotechnique 24, No. 4, 1974, pp 517-530.
- 40) Fernando, D.A., "Mesh Element reinforced colliery discard", MSc Dissertation, University of Durham 1984.
- 41) Fernando, D.A., and Finlay, T.W., "Economics, Geotechnical Properties and Cost-Benefits of Using Low-Grade Materials as Fill", Proceedings of the International conference on construction on polluted and marginal land, University of Brunel, 1990, pp 73-86.
- 42) Finlay, T.W., "Performance of a reinforced earth structure at Granton, Edinburgh", TRRL supplementary report 457, 1977, pp 210-220.

- 43) Finlay, T.W., Khattri, M.S., and Sutherland, H.B.,  
"The Friction Coefficient of Metallic Strip  
Reinforcement", Proc. Vith Int Conf on Soil Mechanics  
and Foundation Engineering, (1984), pp619-624.
- 44) Gamboa, J., and Benassini, A., "Behaviour of  
Netzahualcoyotl dam during construction", Proc ASCE  
93, SM4, 211.
- 45) Glover, H.G., "Environmental effects of coal mining  
waste utilisation", proc. symposium on Reclamation,  
Treatment and Utilisation of Coal Mining Waste, paper  
no 17, University of Durham, Pub National Coal Board  
(NCB), 1984.
- 46) Gray, D.H., and Ohashi, H., "Mechanics of Fibre  
Reinforcements in Sand", J. Geotechnical Engineering.  
ASCE, 109 (GT3): (1983), pp, 335-353.
- 47) Hassan, Y.E., and Machin, K.E., "Transverse Sensitivity  
Errors in Rectangular Rosettes," Strain, April 1978,  
pp 47-49.
- 48) Haviland et al., "Durability of Corrugated Metal  
Culverts". Highway Research Record 242, HRB, National  
Research Council, Washington D.C (1968).
- 49) Head, K.H., "Manual of Laboratory testing Vols I-III,  
Pentech Press, London (1986) pp 1194.
- 50) Hermann, L.R., and Al-Yassin, Z., "Numerical Analysis  
of reinforced earth systems" Proc. ASCE symposium on  
reinforced earth, Pittsburg, Penn 1978, pp 428-457.
- 51) Hollinghurst, E. and Murray, R.T., "Reinforced earth  
retaining wall at A3/A322 interchange: design,

- construction and cost".,Proc.Institution of civil engineers,Part 1,1986,80,Oct,pp 1327-1341.
- 52) Ingold,T.S., "An analytical study of geotextile reinforced embankments" Proc. 2nd international conference on Geotextiles, Las Vegas (1982).
- 53) Ingram,J.K., "The Development of a Free-Field Soil Stress Gauges for Static and Dynamic Measurements.", ASTM special publication No. 392, ASCE, 1965, pp 20-35.
- 54) "Investigations of Pressures and Deflections for Flexible Pavements", Report No. 4, Homogenous Sand Test Section,WES,Tech Memo No. 3-323, December 1954.
- 55) Jewell, R.A., "Some effects of reinforcement on the mechanical behaviour of soils," Phd thesis, University of Cambridge, England, 1980.
- 56) Jewell,R.A., "Material Requirements for Geotextiles and Geogrids in Reinforced Slope Applications". proc. 23rd International Man-Made Fibres Congress, Darnbirn, Austria(Sept 1984).
- 57) Jewell,R.A.,and Wroth,C.P., "Direct Shear Tests on Reinforced Sand",Geotechnique, 37(1), 1987, pp. 53-68.
- 58) Jones,C.J.F.P., "The York method of reinforced earth construction".Proc. ASCE symposium on earth reinforcement,Pittsburg, Penn, 1978, pp 501-528.
- 59) Jones,C.J.F.P., "Earth Reinforcement and Soil Structures",Publ.Butterworths,London,pp 183,1985.
- 60) Jones,C.J.F.P., "The Use of Ash in Reinforced Earth", 2nd Int Conf.on Ash Technology and Marketing, London,



- 1987, pp 543-547.
- 61) Jones, C.J.F.P., Reinforced Earth Course Notes, University of Oxford, 1989.
- 62) Jones, C.J.F.P., Cripwell, J.B., and Bush, D.J., "Reinforced Trial Structure for Dewsbury Ring Road", Proc, ICE, Part 1, 1990, 88, April, pp 521-3245.
- 63) Juran, I., "Dimensionnement interne des ouvrages en terre armee", Phd Thesis, LCPC, Paris, 1977.
- 64) Juran, I and Schlosser, F. "Theoretical Analysis of Failure in reinforced earth structures". Proc. ASCE symposium on reinforced earth, Pittsburg, Penn, 1978, pp 528-555.
- 65) Juran et al. "Full Scale Experiment on a Reinforced Earth Bridge Abutment in Lille", Proc. ASCE Symposium on earth Reinforcement, Pittsburg, Penn, 1978, pp 556-584.
- 66) Juran, I., and Chen, C.L., "Strain Compatibility design method for reinforced earth walls." ASCE journal of Geotechnical Engineering, Vol 115, No. 4, April 1989, pp 435-456.
- 67) Kettle, R.J., "The improvement of colliery spoil", QJEG, Vol 16, 1983, pp 221-229.
- 68) Khattri, M.S., "Study of the Soil-reinforcement friction co-efficient", MSc Thesis, University of Glasgow, 1982 pp 115.
- 69) King, R.A., "Corrosion in Reinforced Earth", TRRL, supplementary report 457, 1977, pp 276-291.

- 70) Kirkpatrick, W.M., and Belshaw, D.J., Geotechnique Vol 18 No.3, 1968, pp 336-350.
- 71) Kishida, H., and Uesugi, M., "Tests on Interface between Sand and Steel in the simple Shear Apparatus", Geotechnique, 37(1), (1987), pp 45-52.
- 72) Lee, K.L., Adams, B.D., and Vagneron, J.M.J., "Reinforced earth walls", Report to the National Science Foundation, University of California, LA, 1972.
- 73) Lee, K.L., ASCE, Geotechnical Journal, Vol 104, No. GT6, 1978, pp 687-704.
- 74) "Les Ouvrages en terre armee-recommendations et regles l'art, LCPC, France, 1979.
- 75) Leflaive, E., "The Reinforcement of Granular Materials with Continuous Fibres". Proc. 2nd International Conference on Geotextiles, Las Vegas, Nevada, Aug 1982, Vol III pp 721-726.
- 76) Lisle, R.J., and Strom, C.S., "Least Squares Fitting of the Linear Mohr Envelope". QJEG, Vol No. 15, 1982, pp 52-56, London, England.
- 77) Lowe, J., and Johnson, T.C., "Use of back pressure to increase degree of saturation", ASCE Research Conf on Shear Strength of Cohesive Soils, ASCE, Boulder, Colorado, 1961, pp 530.
- 78) Mallowan, M.E.L., Early Mesopotamia and Iran, London, Thames and Hudson 1963.
- 79) MacFarlane, R., (Private Communication) "Geotechnical Properties of Thanet Sand", 1990, Extracts from the

Thurrock-Dartford Bridge Report.

- 80) Marsal, R.J., "Contact Forces in Soil and Rockfill Materials", Second PanAm Conf SMMFE, Vol 2, 1967, pp67, Brazil.
- 81) Marsal, R.J., "Grain Forces in Non-Cohesive Soils", Third PanAm Conf SMMFE, 1967, Vol 1, pp227, Caracas, Venezuela.
- 82) Marsal, R.J., "Mechanical Properties of Rockfill", Embankment Dam Engineering. Casagrande Volume, 1973, New York, John Wiley and Sons.
- 83) Meyerhof, G.G., "The Bearing Capacity of Foundations under Eccentric and Inclined Loads" Proc. 3rd International Conference on Soil Mechanics and Foundation Engineering, Zurich, Switzerland, 1953, pp 440-445, Vol 1.
- 84) Mitchell, J.K., Kao, T.C., and Kavazanjian, E., "Analysis of Grid Cell Reinforced Bases" Technical techniques, Paris (March 1979).
- 85) Michalski, P., and Skarzynska, "Compatibility of Coal mining wastes as a fill material", Proc. symposium on the Reclamation, Treatment and Utilisation of Coal Mining Wastes, University Durham, paper 15, publ. NCB, 1984.
- 86) Miller, S.M., and Borgman, L.E., "Probabilistic characterisation of shear strength using results of direct shear tests". Geotechnique, 1984, pp 273-276.
- 87) Mitchell, J.K., and Schlosser, F., "General Report, Session No.1" Proc. International Conference on

Soil Reinforcement: Reinforced earth and other  
Report GL-79-8, Geotechnical Engineering Laboratory,  
U.S. Army Engineer Waterways Experiment Station,  
Vicksburg, Mississippi, 1979.

- 88) Monfroe, G.E., U.S. Department of Interior, Bureau of Reclamation (Res. and Geol. Division) Research Laboratory report No. S.P. 26, 1950.
- 89) Morgan, J.R., and Gerrard, C.M., "Free Field Measurements of Stresses and Strains in Soils". Proc. of the 4th conference of the Australian Road Research Board, Melbourne, Vol IV, pp 1743-1760.
- 90) Murray, R.T., and Hollinghurst, E., "Reinforced Earth Retaining Wall at A3/A322 Interchange: Instrumentation, Site Observation and Performance", Proc. ICE, Part 1, 1986, 80, Oct, pp, 1343-1362.
- 91) Murray, R.T., and Farrar, D.M., "Reinforced Earth Wall on the M25 Motorway at Waltham Cross", Proc, ICE, Part 1, 1990, 88, April, pp 261-282.
- 92) Nascimento, U., and Teixeira, H., "Mechanisms of internal friction in soils and rocks". Proc. symposium of the ISRM, Nancy, 1971.
- 93) Nash, K.L., "The shearing resistance of a finely closely graded sand", 3rd International conference on Soil Mechanics and Foundation Engineering, Zurich, 1953, Vol I, pp 160-172.
- 94) National Coal Board Technical Handbook, "Spoil Heaps and Lagoons", 2nd Draft, publ. NCB, London pp 23, 1970.

- 95) National Coal Board., "Application of British Standard and 1377:1967 to the testing of colliery spoil"., NCB, London, 1971.
- 96) Newland, P.L., and Alley, B.H., "Volume changes in drained triaxial materials in granular materials", Geotechnique 7, No.1, 1957.
- 97) Nichiporovitch, A.A., and Razzkazov, L.N., "Shear Strength of Coarse Fragmented Materials", Proc Geotechnical Conf. Oslo, 1967, Vol 1, pp 225-229.
- 98) Osman, M.A., "An analytical and experimental study of reinforced earth retaining walls" Phd Thesis University of Glasgow (1977), pp 338.
- 99) Pasley, C.W., Course of Elementary Fortification, London, J Murray (1822), Vol 2 Ch 26.
- 100) Peattie, K.R., and Sparrow, R.W., "The fundamental action of earth pressure cells.", Journal mechanics and Physics of Solids, Vol II, 1954, pp 141-155.
- 101) Pells, P.J.N., Maurenbrecher, P.M., and Elges, H.F.W.K. "Validity of results from the direct shear test". Proc. 8th International Conference on Soil Mechanics and Foundation Engineering, Moscow, Vol 1.2, pp 333-338.
- 102) Penner, E., Eden., N.J., and Gillott, J.E., "Floor heave due to biochemical weathering of shale"., Proc. Conference on Soil Mechanics and Foundation Engineering, Moscow Vol II 1974 pp 151-158.
- 103) Perloff, W.H, and Pombo, L.E., "End restrain effects in the triaxial test", Seventh international conference

- on Soil Mechanics and foundation engineering, Mexico, 1969, pp 327-333.
- 104) Phan et al, "Stability analysis of reinforced earth walls by two slip circle methods", Proceedings of the International conference on reinforced earth, Vol I, Paris 1979, pp119-123. (English Translation).
- 105) Pickett, G., "Application of the Fourier Method to the Solution of Certain Boundary Problems in the theory of Elasticity," Journal of Applied mechanics, Vol II, 1944.
- 106) Ponce, V.M., and Bell, J.M., "Shear Strength of Sand at extremely low pressures", Journal of the soil mechanics and foundation division, ASCE, April 1971, pp 625-637.
- 107) Pople, J., "Some factors affecting long term stability of strain measurements using metal foil gauges," B.S.S.M. Meeting, Coventry, May 1977.
- 108) Pople, J. "DIY Strain Gauge Transducers", (Part 1) Strain, January 1980, pp 23-36.
- 109) Potyondy, J.G., "Skin Friction Between Various Soils and Construction Materials", Geotechnique, (4), 1961, pp 339-353.
- 110) Rainbow, A.K.M.R., "The utilisation of waste from coal mining in the United Kingdom" Proc First International Symposium on environmental technology for developing countries, Istanbul, Turkey (1982).
- 111) Rainbow, A.K.M.R., "An Investigation of Some Factors Influencing the Suitability of Minestone as Fill in



- Reinforced Earth Structures".Phd Thesis, University of Nottingham, NCB,1983.
- 112) Rainbow,A.K.M.R.. "Research into Reinforced Minestone in the United Kingdom",Proc.Symposium on Reclamation,Treatment and Utilisation of Coal Mining Wastes,1984,Durham, England,paper 7.1, NCB London.
- 113) Rainbow,A.K.M., "Pull-out Tests Using Purpose Built Equipment".,Proc.Symposium on Reclamation, Treatment and Utilisation of Coal Mining Wastes, Durham, (1984), England,paper No.8.
- 114) Rainbow,A.K.M., "Shear Strength of Minestone Under Low Normal Stress in Large Shear Box (applied to reinforced minestone)".,Proc.Symposium on the Reclamation, Treatment and Utilisation of Coal Mining Wastes, Durham,England,(1984), paper No.36.
- 115) Romanoff,J., "Underground Corrosion" National Bureau Standard Circular 579 (1957).
- 116) Romanoff,M., "Corrosion of Steel Piling in Soils," National Bureau of Standards Monograph 127, NBS papers on corrosion of steel pilings (1962-1971), 1972.
- 117) Romstad et al, "Integrated study of Reinforced Earth Theoretical Formulation." ASCE Geotech Eng Div. Vol 102 No.GT5 (May 1976) pp 457-471.
- 118) Roscoe,K.H., "An apparatus for the Application of Simple Shear to Soil Samples",Proc.3rd Int.Conf. on Soil Mechanics and Foundation Engineering,Vol I, (1953),pp.186-191.


- 119) Roscoe, K.H., Schofield, A.N., and Wroth, C.P., "On the yielding of soils", *Geotechnique*, 8.1, 1958 pp 22-53.
- 120) Roscoe, K.H., Schofield, A.N., and Thurairajah, "An evaluation of test data for selecting a yield criterion". Symposium Laboratory shear testing of soils, Ottawa, ASTM STP 361, 1964, pp 111-128.
- 121) Rowe, P.W., Proc of Royal Society of London, Series A vol.269, 1962, pp 500-527.
- 122) Rowe, P.W., Barden, L., and Lee, I.K., "Energy components during the triaxial cell and direct shear test", *Geotechnique*, 14, No.3, 1964, pp 247-261.
- 123) Rowe, P.W., and Barden, L., "Importance of free ends in triaxial testing", *Journal of the Soil Mechanics and Foundation Division ASCE*, Vol L90, No.SM6 (1964), pp 173-175.
- 124) Rowe, P.W., "The relation between the shear strength of sands in triaxial compression, plane strain and direct shear", *Geotechnique*, 19, No.1, 1969, pp 75-86.
- 125) Rowe, P.W., "Theoretical meaning and observed values of deformation parameters for soil," in *Stress Strain Behaviour of Soils*, Proc. Roscoe memorial symposium, Cambridge University, 1971, pp 143-194, Publ. G.T. Foulis & Co Ltd, Oxfordshire, England.
- 126) Roy, M., and Lo, K.Y., *Canadian Geotechnical Journal*, Vol 8, No.4, 1971, pp 579-588.
- 127) Rutledge, P.C., "Cooperative Triaxial Shear Research Program", US Waterways Experiment Station, Vicksburg,




Miss 1947.

- 128) Saada, A.S., and Townsend, F.C., "State of the Art: Laboratory Strength Testing of Soils," Proc. ASTM Symposium on Laboratory Shear Strength of Soils, 1981, pp 7-77.
- 129) Sarsby, R.W., Kalteziotis, N., and Haddard, E.H., compression of "free ends" during triaxial testing", ASCE Geotechnical Journal, Jan 1982, pp83-107.
- 130) Sarsby, R.W., and Marshall, C.B., "The Interaction between Unburnt Colliery Waste and Polymer Geogrid", Proc. Symposium on Reclamation, Treatment and Utilisation of Coal Mining Wastes, 1984, Durham, England, paper 35.1, NCB, London.
- 131) Sarsby, R.W., and Marshall, C.B., "The interaction between unburnt colliery waste and a polymer Geogrid", Proc. Symposium on the Reclamation, Treatment and Utilisation of Coal Mining Wastes, Durham, England, (1984), paper No.35.
- 132) Sarsby, R.W., "The Sliding Resistance between Grid Reinforcement and Weathered Colliery Shale", Proc. Symposium on Reclamation, Treatment, Utilisation of Coal Mining Wastes", Nottingham, England, 1987, pp, 587-596, NCB, London.
- 133) Savage, R.J., "Soil and Rock Slope Instrumentation", QJEG, Vol16, 1973 pp 287-293.
- 134) Schlosser, F and Vidal, H., "Reinforced Earth Bulletin de Liaison des Laboratoires Routiers - Ponts et Chaussées, No 41, November, 1969.

- 135) Schlosser, F., and Long, N.C., "La Terre Armee dans L'Echageur de Sete". Revue Generale des Rates et des Aerodomes No.480, Oct 1972.
- 136) Schlosser, F., and Elias, V., "Friction in Reinforced Earth", proc. ASCE Symposium on Earth Reinforcement, Pittsburg, Penn 1978, pp735-763.
- 137) Schlosser, F., and Sergestin, P., "Dimensionnement des Ouvrages en Terre Armee par la Methode de l'Equilibre Local", International Conference on Soil Reinforcement, Reinforced Earth and other Techniques, Paris, March 1979, Vol1 pp552.
- 138) Selig, E.T., "A review of stress and strain measurement in soil", Proc. of the symposium on soil-structure interaction, University of Arizona, Tucson, Arizona, 1964, pp172-186.
- 139) Selig, E.T., and Ho, J., "Retaining wall experiment to evaluate soil strain gauge", Proc. ASCE, Soil Mechanics and foundation division, Vol 97, No. SM6, June 1971, pp953-957.
- 140) Shen, C.K., et al, "Laboratory Testing and Model Studies of Friction in Reinforced Earth", proc International Conference on Reinforced Earth, Paris, Vol 1 pp169-174.
- 141) Sherwood, P.T., "The use of waste and low grade materials in road construction: a guide to materials available" TRRL laboratory report 647, Department of the Environment 1974.

- 142) Sherwood, P.T., "The use of waste and low grade materials in road construction: 2. Colliery Shale," Department of the Environment, TRRL Laboratory report No.649, 1975.
- 143) Shewbridge, S.E., and Sitar, N., "Deformation Characteristics of Reinforced Sand in Direct Shear", J.Geotechnical Engineering, ASCE, Vol 115, No 8, August 1989, pp, 1134-1147.
- 144) Shockley, W.G., and Ahlvin, R.G., "Non-uniform conditions in the triaxial test specimens," Research Conference on shear strength on Cohesive Soils, ASCE, Boulder, Colorado, 1961, pp341.
- 145) Skarzynska et al, "Laboratory and site investigations on weathering of coal mining wastes as a fill material in earth structures",  Dept of soil mechanics and earthworks, Agricultural University report, Poland, 1983.
- 146) Skempton, A.W., "Pore Pressure Coefficients A and B"., "Geotechnique, 4:4, 1954, pp 143.
- 147) Sleeman, W., "Economics of Minestone Utilisation" Proc. Symposium on Reclamation, Treatment and Utilisation of Coal Mining Wastes, University of Nottingham, 1987, pp 1-19, Publ.Elsevier Amsterdam.
- 148) Spears, D.A, Taylor, R.K., and Till, R.A., "Mineralogical investigation of a spoil heap at Yorkshire main colliery", QJEG, Vol 3, pp239-252, 1971.
- 149) Steward, H.E., and Cripps, J.C., "Some engineering implications of chemical weathering of pyritic

- shale", QJEG, vol 16, pp 281-289, 1983.
- 150) Stocker et al, "Soil Nailing". Proc. International Conference on soil Reinforcement: Reinforced Earth and other techniques, Paris, Vol I (March 1979) pp 469-474.
- 151) "Stress Distribution in a Homogeneous Soil, Research Report No.12-F, Highway Research Board, Washington, D.C., January 1951.
- 152) "Stresses under Moving Vehicles - Wheeled Vehicle in Lean and Fat Clay, 1957, "Tech Report No.3-545, U.S. WES, Vicksburg, Mississippi, May 1960.
- 153) Swan, J.W., "Experimental evaluation of a method for separating axial and bending stresses from strain gauge measurements taken on one surface by three-element rosettes", "Strain", August 1984, pp 99-115.  [www.lib.mrt.ac.lk](http://www.lib.mrt.ac.lk)
- 154) Taylor, D.W., "A comparison of results of direct shear and cylindrical compression test", Proc ASTM, 1939, pp1058.
- 155) Taylor, D.W., "Pressure distribution theories, Earth Pressure Cell Investigations and Pressure Distribution Data," U.S. Army Waterway Experiment Station, Vicksburg, Mississippi, 1947.
- 156) Taylor, R.K., "Influence of coal content on the peak shear strength of colliery shales", Geotechnique, 24, pp 683-688, 1974.
- 157) Taylor, R.K., "Properties of mining waste with respect to foundations", In Foundation Engineering in

- Difficult Ground, F.G. Bell, Newnes-Butterworth, 1978, pp175-203.
- 158) Taylor, R.K., "Composition and engineering properties of British colliery discards". NCB, London, 1984, pp 235.
- 159) Taylor, R.K., and Garrard, G.F.G., "Design shear strengths for UK colliery discards", Proc. Symposium on the Reclamation, Treatment and Utilisation of Coal Mining Wastes, Durham, England, 1984, paper No.34, publ. National Coal Board, London.
- 160) Thomas, H.S.H., and Ward, W.H., "The design, construction and performance of a vibrating wire earth pressure cell", "Geotechnique 19, 1969, pp39-51.
- 161) Timoshenko, S.P., and Gere, J.M., "Mechanics of Materials", 1972, pp112-155. Sri Lanka Electronic Theses & Dissertations www.lib.mrt.ac.lk
- 162) Truesdale, W.B., and Anderson, M.E., "A new device for soil strain measurement." Proc. of the symposium on Soil-Structure Interaction, University of Arizona, Tucson, Arizona, (1964), pp124-137.
- 163) Vidal, H., "The Principle of Reinforced Earth". Highway Research Record 282, Highway Research Board, National Research Council, Washington D.C., 1969, pp1-16.
- 164) Weatherby, D.E., "Tiebacks". Federal Highway Administration, FHWA/RD-82/047, July 1982.
- 165) Wei, M.J., 'Frictional behaviour of Reinforcement in Reinforced Earth Materials', Phd thesis, University of Glasgow, 1990, pp317.

- 166) Whiffin,A.C., "The Pressures Generated in Soil by Compaction Equipment." Symposium on Dynamic Testing of Soils,ASTM Special Technical Publication No. 156, 1954,pp186-210.
- 167) Whiffin,A.C.,and Morris,A.H., "Piezoelectric Gauge for Measuring Dynamic Stresses under Roads," The Engineer, April,1962,pp 3-7.



University of Moratuwa, Sri Lanka.  
Electronic Theses & Dissertations  
[www.lib.mrt.ac.lk](http://www.lib.mrt.ac.lk)