

## 參考文獻

何春蓀(1986)，「台灣地質概論及台灣地質圖說明書」，經濟部中央地質調查所，第 99-102 頁。

鄭孟雄(1999)，「軟岩用高壓傍壓儀研製」，國立交通大學土木工程系，碩士論文。

房正國(1999)，「軟弱岩石孔內試驗儀器之研發」，國立交通大學土木工程系，碩士論文。

簡慶賢(2000)，「軟弱岩石孔內試驗」，國立交通大學土木工程系，碩士論文。

國立交通大學(2002)，「寶山第二水庫蓄水後邊坡穩定性研究成果報告」，第 4.57-4.63 頁。

Absi, E. and Seguin, M. (1967), "Le Noveau Geoxtensometre," Supplement to Annales de L'Institut Technique du Batiment et des Travaux Publics, No. 235-236, pp. 1151-1158.



Agarrval, R. (1968), "Sensitivity Analysis of Borehole Deformation Measurements of In Situ Stress Determination When Affected by Borehole Excentricity," Status of Practical Rock Mechanics (Grosvenor, N. and Paulding, B. W. Ed.), AIME, New York.

Amadei, B. (1985), "The influence of rock mass fracturing on the measurement of deformability by borehole expansion tests," Proceedings of 26th U.S. Symposium on Rock Mechanics, pp. 859-867.

Amadei, B. and Savage, W. Z (1991), "Analysis of borehole expansion and gallery tests in anisotropic rock masses," International Journal of Rock Mechanics and Mining Science, Vol. 28, pp. 383-396.

Amadei, B., Valverde, M., Jernigan, R., Touseull, J. and Cappelle, J. F. (1995), "The directional dilatometer: A new option to determine rock mass deformability," The Pressuremeter and its New Avenues (Ballivy Ed.), Balkema,

Rotterdam, pp. 257-264.

Ameratunga, J. J. P. and Johnston, I. W. (1986), "The influence of compressible seams on moduli determined by a pressuremeter," Proceedings of Special Geomechanical Symposium on International Field Testing Design Parameters, Adelaide, Institution of Engineerings, Australia, Vol. 1, pp. 65-69.

ASTM D 4971 – 89 (1992), "Standard Test Method for Determining the In Situ Modulus of Deformation of Rock Using the Diametrically Loaded 76-mm (3-in.) Borehole Jack," pp. 1119-1124.

Burland, J. B. (1970), Discussion, Session A Proceeding, Conference On In-situ Investigation in soils and Rocks, British Geotechnical Society, London, England, pp. 61-62.

Clarke, B. G. (1995), "Pressuremeters in Geotechnical Design," Blackie and Academic and Professional, Glasgow, UK, pp. 364.

Dodds, D. J. (1974), "Interpretation of Plate Loading Test Results," Field Testing and Instrumentation of Rock, ASTM STP 554, American Society for Testing and Materials, pp. 20-34.

El Rabba, A., Wadood, M. A., Hustrulid, W. A. and Ubbes, W. F. (1982), "Spatial distribution of deformation moduli around the CSM/ONWI room," Edgar Mine, Idaho Springs, Colorado, Proceedings of 23th U.S. Symposium on Rock Mechanics, pp. 790-801.

Ervin, M. C., Burman, B. C. and Hughes, J. M. D. (1980), "The use of a high capacity pressuremeter for design of foundations in medium strength rock," Proceedings of International Conference on Structural Foundation Rock, Sydney, Balkema, Rotterdam, Vol. 1, pp. 9-16.

Gerrard, J. P. and Harrison, W. J. (1974), Appendix B to Poulos and Davis (1974).

Gill, D. E. and Leite, M. H. (1995), "Dilatometer testing of rock," The

Pressuremeter and its New Avenues (Edited by Ballivy, G.), Rotterdam, Balkema, pp. 249-256.

Goodman, R. E., Van T. K. and Heuze F. E. (1968), "Measurement of rock deformability in boreholes," Proceedings of 10th U.S. Symposium on Rock Mechanics, Austin TX, pp. 523-555.

Haberfield, C. M. and Johnston, I. W. (1986), "Concepts for pressuremeter interpretation in soft rock," Proceedings of Special Geomechanical Symposium on Interpretation Field Testing Design Parameters, Adelaide, Institution of Engineers, Australia, Vol. 1, pp. 65-69.

Haberfield, C. M. and Johnston, I. W. (1990b), "The interpretation of pressuremeter tests in weak rock – theoretical analysis," Proceedings of 3rd International Symposium on Pressuremeter, Oxford, Telford, London, pp. 169-178.

Heuze, F. E. (1993), "How Do Some Field Tests Really Work? The Case of the NX-Borehole Jack," Comprehensive Rock Engineering: Principles, Practice, & Projects, Vol. 3 Rock testing and site characterization, pp. 683 –692.

Heuze, F. E. and Amadei, B. (1985), "The NX-borehole jack: a lesson in trials and errors," International Journal of Rock Mechanics and Mining Science and Geomechanics Abstract, 22, pp. 105-112.

Heuze, F. E. and Dessenne, J. L. (1972), "The influence of joint spacing, and the effect of rock breakage on borehole deformability test results," Representative to U.S. Corps of Engineers by Department of Civil Engineering, University of California, Berkeley.

Heuze, F. E., Goodman, R. E. and Bornstein, A. (1971), "Numerical analysis of deformability tests in jointed rock-joint perturbation' and 'no-tension' finite element solutions," Rock Mechanics, Vol. 3, pp. 13-24.

Heuze, F. E. and Salem, A. (1976), "Plate bearing and borehole jack tests in rock – a finite element analysis," Proceedings of 17th U.S Symposium on Rock

Mechanics, UT, pp. 4B8-1-4B8-6.

Heuze, F. E. and Salem, A. (1977), "Rock deformability measured in - situ – Problems and solutions," Proceedings of International Symposium on Field Measurements in Rock Mechanics, Rotterdam, Balkema, Vol. 1, pp. 375-387.

Hughes, J. M. O. and Ervin, M. C. (1980), "Development of a high pressure pressuremeter for determining the engineering properties of soft to medium strength rocks," Proceeding 3rd Australia – New Zeland Conference on Geomechanics, Vol.1, pp. 1.243-1.247.

Hustrulid, W. (1979), "An analysis of several borehole techniques for determining stress and modulus," Proceeding 4th ISRM Conference, Vol. 2, pp. 249-258.

Hustrulid, W. and Hustrulid, A. (1975), "The CSM cell – a borehole device for determinition of the modulus of rigidity of rock," Proceedings of 15th U.S. Symposium on Rock Mechanics, pp. 181-225.

Hustrulid, W. A. (1976), "An analysis of the Goodman jack," Proceedings of 17th U.S. Symposium on Rock Mechanics, Snowbird, UT, University of Utah, Salt Lake City, pp. 4B10-1 – 4B10-8.

Huang, A. B., Fang, C. K., Liao, J. J., Pan, Y. W.(2002), "Development of a Multiple-Purpose Borehole Testing Device for Soft Rock," Geotechnical Testing Journal, Vol.25, pp.227-233.

Ip, C. K., Irvin, R. A. and Farmer, I. W. (1991), "A hybrid borehole device for site investigation in rocks," Proceedings of 32nd U.S. Symposium on Rock Mechanics, pp.121-128.

Jaeger, J. C. and Cook, N. G. W. (1964), "Theory and Application of Curved Jacks for Measurement of Stresses," State of Stress in the Earth's Crust (Judd, W. R. Ed.), Elsevier Press, New York, pp. 12-1.

Jesse, L. Yow, Jr. (1993), "Borehole Dilatometer Testing for Rock Engineering,"

Comprehensive Rock Engineering: principles, practice, & projects, Vol. 3, Rock testing and site characterization, pp. 671-682.

Johnston, I. W. (1993), "Soft Rock Engineering," Comprehensive Rock Engineering: principles, practice, & projects, Vol. 1 Fundamental, pp. 367-393.

Johnston, I. W., Donald, I. B., Bennet, A. G., and Edwards, J. W. (1980), "The Testing of Large Diameter Pile Rock Sockets with a Retrievable Test Rig," Proceeding 3rd Australia – New Zealand Conference Geomechanics Wellington, Vol. 1, pp. 105-108.

Kujundzic, B. (1965), "Experimental research into mechanical characteristics of rock masses in Yugoslavia," International Journal of Rock Mechanics and Mining Science, Vol. 2, pp. 75-91.

Martini, H. J., Duerbaum, H., Giesel, W., Habetha, E., Kleinsorge and H., Langer, M. (1964), "Methods to determine the physical properties of rock," Proceeding 8th Congress on Large Dams, R.16, Q.28, pp. 859-869.

Meyer, T. O. and McVey, J. R. (1974), "NX borehole jack modulus determinations in homogeneous isotropic, elastic materials," Representative Invest – U.S., Bureau Mines 7855.

Noel, G. (1963), "Mesure du Module d'Elasticite on Profondeur dans les Massifs Rocheux, Cellule de Module de Mesure," De l'Institut Technique du Batiment et des Travaux Publics, No. 85, pp. 533-540.

Oliveira R. (1993), "Weak Rock Materials," Engineering geology special publication, pp. 5-15.

Oliveira R. (1990), "Weak Rock Materials," Engineering Geology Special Publication, No. 8, pp. 5-15.

Pells, P. J. N. (1983), "Plate loading tests on soil and rock," In Situ Testing for Geotechnical Investigations, Balkema, Rotterdam, pp. 73-86.

Pells, P. J. N. and Turner, R. M. (1979), "Elastic solutions for the design and

analysis of rock socketed piles," Canadian Geotechnical Journal, Vol. 16, pp. 481-487.

Penek, L. A., Hornsey, E. E. and Lappi, R. L. (1964), "Determination of the modulus of rigidity of rock by expanding a cylindrical pressure cell in a drillhole," Proceedings of 6th U.S. Symposium on Rock Mechanics, pp. 427-449.

Penek, L. A., and Stock, J. A. (1964), "Development of a Rock Stress Monitoring Station Based on Flat Slot of Measuring Existing Rock Stress," Report of Investigation 6537, U.S. Bureau of Mines.

Poulos, H. G. and Davis, E. H. (1974), Elastic solutions for soil and rock mechanics, Wiley, New York.

Rocha, M., da Silveira, A., Grossmann, N. and de Oliveira, E. (1966), "Determination of the deformability of rock masses along borehole," Proceeding 1st ISRM Conference, Vol. 1, pp. 697-704.

Salem, A. (1976), Finite element analysis of rock deformability tests, M. Sc. Thesis, University of Colorado, Boulder.

Serata, S. (1982), "Stress control methods: Quantitative approach to stabilizing mine openings in weak ground," Proceeding 1st Conference Stability in Underground Mining, pp. 52-98.

Shuri, F. S. (1981), "Borehole diameter as a factor in borehole jack results," Proceedings of 22nd U.S. Symposium on Rock Mechanics, Boston, MA (Edited by Einstein, H. H.), MIT Press, Cambridge, MA, pp. 392-397.

Suyama, K., Ohya, S. and Imai, T. (1984), "Mise au point et utilisation du pressiomètre LLT pour predire le comportement des pieux soumis a une charge horizontale," Symposium sur la pressiométrie et ses applications en mer, pp. 67-83.

Suzuki, K. (1968), "Fundamental Study of Rock Stress Measurements by

Borehole Deformation Method," Proceedings 1st ISRM conference, Vol. 2, pp. 35-39.

Swolfs, H. S. and Kibler, J. D. (1982), "A note on the Goodman jack," Rock Mechanics, Vol. 15, pp. 57-66.

Wilson, E. L. (1967), "Stress Analysis of Prismatic Solids," SESM Report, Department Civil Engineering, University of California, Berkeley.

