

CURRICULUM VITAE

Updated: January 03, 2014

1. Name:

Yung-Show FANG

2. Academic Affiliation:

Professor, Department of Civil Engineering, **National Chiao Tung University**

3. Office Address:

Department of Civil Engineering
National Chiao Tung University
1001 University Road
Hsinchu, Taiwan, 30010, R.O.C.

4. Telephone:

886-3-571-8636

5. Fax:

886-3-571-6257

6. E-mail Address

ysfang@mail.nctu.edu.tw

7. Academic Qualifications:

Doctor of Philosophy, 1983, Department of Civil Engineering, University of Washington, Seattle, Washington, USA.

Master of Engineering, 1979, Department of Civil Engineering, University of South Carolina, Columbia, South Carolina, USA.

Bachelor of Engineering, 1976, Department of Civil Engineering, Chung-Yuan University, Chung-Li, Taiwan.

8. Membership of Professional Bodies:

International Society of Soil Mechanics and Geotechnical Engineering

American Society of Civil Engineers

Southeast Asian Geotechnical Society

Tau Beta Psi (USA)

Chinese Institute of Engineers (Taiwan)

Chinese Institute of Civil and Hydraulic Engineering (Taiwan)

Chinese Taipei Geotechnical Society

9. Areas of Interest:

Tunnelling (Shield tunnelling in soft ground)

Foundation Engineering (Lateral earth pressure)

Ground Improvement (Jet grouting and deep mixing)

Soil Dynamics

10. Nature of Project Work:

Estimation of ground settlements due to shield tunnelling

Experimental study of active and passive earth pressure
Failure mechanism of spudcans on jack-up turbine installation vessels
Mechanical properties of jet-grouted soilcrete
Cases of failure in geotechnical engineering

11. Employment Records:

Dean, College of Engineering, National Chiao Tung University, Hsinchu, Taiwan, 2006 - 2009.
Associate Dean, College of Engineering, National Chiao Tung University, Hsinchu, Taiwan, 2004 - 2006.
Chairman, Department of Civil Engineering, National Chiao Tung University, Hsinchu, Taiwan, 2002 - 2004.
Director, Institute of Civil Engineering, National Chiao Tung University, Hsinchu, Taiwan, 1994 - 1996.
Associate Professor and **Professor**, Department of Civil Engineering, National Chiao Tung University, Hsinchu, Taiwan, 1983 - now.
Visiting Scholar, Department of Civil and Environmental Engineering, University of Washington, Seattle, Washington, 1998.
Visiting Associate Professor, School of Civil and Environmental Engineering, Cornell University, Ithaca, New York, February – September, 1985.

12. Others:

President, Chinese Taipei Geotechnical Society, Member Society of ISSMGE, 2013-now.
Chief Editor, Sino-Geotechnics journal, Taiwan, 2012-now.
Associate Editor, Geotechnical Engineering Journal, Southeast Asia Geotechnical Society (SEAGS), 2003-2007.
Editor in Charge, Journal of the Chinese Institute of Civil and Hydraulic Engineering, Taipei, Taiwan.
Editorial Board Member, GeoEngineering Journal, Taiwan Geotechnical Society (TGS).
Reviewer, *Geotechnical Testing Journal*, American Society for Testing Materials.
Reviewer, *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE.
Reviewer, *Geotechnical Engineering Journal*, SEAGS.
Reviewer, *GeoEngineering Journal*, TGS.
Vice President, Taiwan International Group, ASCE.
Outstanding Teaching Award, National Chiao Tung University, Hsinchu, Taiwan, 2004, 2013.
Outstanding Research Award, National Science Council, Taiwan Government.
Standing Committee, Taiwan Geotechnical Society.
Board Member, Sino-Geotechnics Research and Development Foundation, Taiwan.

Publications of Yung-Show Fang

Updated February 7, 2014

(A) REFEREED PAPERS

1. Fang, Y. S.*, Kao, C. C., and Shiu, Y. F. (2012) "Double-O-Tube shield tunneling for Taoyuan International Airport Access MRT." Tunnelling and Underground Space Technology, Vol. 30, July, pp. 233-245. (DOI: 10.1016/j.tust.2012.03.001) (SCI, IF =1.106 , Rank =45/122, Times cited: 1)
2. Fan, C. C.*, and Fang, Y. S., (2010) "Numerical solution of active earth pressures on rigid retaining walls built near rock faces." Computer and Geotechnics, Volume 37, Issues 7-8, November, pp. 1023-1029. (SCI, IF = 1.224, Rank = 10/32, Times cited: 1)
3. Chen, T. J. and Fang, Y. S.*, (2008). "Earth pressure due to vibratory compaction." Journal of Geotechnical and Geoenvironmental Engineering, ASCE, Vol. 134, No. 4, April, pp. 437-444. (NSC 89-2211-E-009-092) (SCI, IF = 1.156, Rank = 13/32, Times Cited: 2)
4. Fang, Y. S.*, Ju, D. H., Huang W. C. and Chien Y. L., (2006). "Rehabilitation of damaged soft ground tunnels." Journal of GeoEngineering, Taiwan Geotechnical Society, Vol. 1, No. 1, August, pp. 41-49. (EI)
5. Fang, Y. S.*, Kao, C. C., Chou, J., Chain, K. F., Wang, D. R. and Lin, C. T., (2006). "Jet grouting with the superjet-midi method." Ground Improvement, ISSMGE TC-17, Thomas Telford, Vol. 10, No. 2, April, pp. 69-76. (EI)
6. Fang, Y. S.*, Chen, T.J., Holtz, R. D. and Lee, W. F., (2004) "Reduction of boundary friction in model tests," Geotechnical Testing Journal, ASTM, Vol. 27, No. 1. January, pp. 1-10. (SCI, IF = 0.246, Rank = 29/32, Times Cited: 6)
7. Fang, Y. S.*, Yang, Y. C. and T. J. Chen. (2003) "Retaining walls damaged in the Chi-Chi earthquake" Canadian Geotechnical Journal, NRC Canada, Vol. 40, December, pp. 1142-1153. (SCI, IF = 0.811, Rank = 18/32, Times Cited: 11)
8. Fang, Y. S.*, Ho, Y. C. and Chen, T. J., (2003). Closure to "Passive earth pressure with critical state concept." Journal of Geotechnical and Geoenvironmental Engineering, ASCE, Vol. 129, No. 10, October, pp. 962. (NSC 88-2611-E-009-007) (SCI, IF = 1.156, Rank = 13/32)
9. Chen, T. J., and Fang, Y. S.* (2002). "A new facility for measurement of earth pressure at-rest" Geotechnical Engineering, Southeast Asian Geotechnical Society, Vol. 33, No. 3, December, pp. 153-159. (NSC 89-2211-E-009-092) (EI)
10. Fang, Y. S.*, Ho, Y. C. and Chen, T. J., (2002). "Passive earth pressure with critical state concept." Journal of Geotechnical and Geoenvironmental Engineering, ASCE, Vol. 128, No. 8, August, pp. 651-659. (NSC 88-2611-E-009-007) (SCI, IF = 1.156, Rank = 13/32, Times Cited: 9)

11. Fang, Y. S.*, Chung, Y. T., Yu, F. J. and Chen, T. J., (2001). "Properties of soil-cement stabilized with deep mixing method." Ground Improvement, ISSMGE TC-17, Thomas Telford, Vol. 5, No. 2, April, pp. 69-74. (EI)
12. Fang, Y. S.*, and Chen, T. J., (1999). "Damage at Taichung harbor due to 1999 Chi-Chi earthquake." Geotechnical Engineering, Southeast Asian Geotechnical Society, Vol. 30, No. 3, December. (EI)
13. Fang, Y. S.*, Chen, J. M. and Chen, C.Y., (1998). "Earth pressures with sloping backfill." Closure, Journal of Geotechnical and Geoenvironmental Engineering, ASCE, Vol. 124, No. 11, November, pp. 1153. (SCI, IF = 1.156, Rank = 13/32)
14. Fang, Y. S.*, Chen, J. M. and Chen, C. Y., (1997). "Earth pressures with sloping backfill." Journal of Geotechnical and Geoenvironmental Engineering, ASCE, Vol. 123, No. 3, March, pp. 250-259. (NSC 83-0410-E-009-032) (SCI, IF = 1.156, Rank = 13/32, Times Cited: 14)
15. Fang, Y. S.* and Chen, T. J., (1995). "Modification of Mononobe-Okabe theory." Geotechnique, Vol. 45, No. 1, pp. 165-167. (SCI, IF = 1.481, Rank = 5/32, Times Cited: 4)
16. Fang, Y.S.*, Liao, J.J. and Sze, S.C., (1994). "An empirical strength criterion for jet grouted soilcrete." Engineering Geology, Vol. 37, Nos. 3-4, September, pp. 285-293. (NSC 82-0410-E-009-079) (SCI, IF = 1.403, Rank = 6/32, Times Cited: 3)
17. Fang, Y. S.*, Chen, T. J. and Wu, B. F., (1994). "Passive earth pressures with various wall movements." Journal of Geotechnical Engineering, ASCE, Vol. 120, No. 8, August, pp. 1307-1323. (NSC 83-0410-E-009-032) (SCI, IF = 1.156, Rank = 13/32, Times Cited: 47)
18. Fang, Y. S.*, Liao, J. J. and Lin T. K., (1994). "Mechanical properties of jet grouted soilcrete." Quarterly Journal of Engineering Geology, Vol. 27, Part 3, August, pp. 257-265. (SCI, IF = 0.757, Rank = 19/32, Times Cited: 3)
19. Fang, Y. S.*, Lin, J. S. and Su, C. S., (1994). "An estimation of ground settlement due to shield tunnelling by Peck-Fujita method." Canadian Geotechnical Journal, Vol. 31, No. 3, June, pp. 431-443. (NSC 82-0410-E-009-079) (SCI, IF = 0.811, Rank = 18/32, Times Cited: 9)
20. Fang, Y. S.*, Cheng, F. P., Chen, R. T. and Fan, C. C., (1993). "Earth pressures under general wall movements." Geotechnical Engineering, SEAGS, Vol. 24, No. 2, December, pp. 113-131. (NSC 77-0410-E-009-06) (EI)
21. Fang, Y. S.*, Lin, S. J. and Lin, J. S., (1993). "Time and settlement in EPB shield tunnelling." Tunnels and Tunnelling, Vol. 25, No. 11, November, pp. 27-28. (NSC 82-0410-E-009-079) (EI)

22. Fang, Y. S.*, Pan, M. D. and Lin, G. J., (1992). "Settlement caused by blind shield tunnelling through Taipei silt." Tunnels and Tunnelling, Vol. 24, No. 11, November, pp. 22-24. (NSC 81-0410-E-009-011) (EI)
23. Ishibashi, I.* and Fang, Y. S., (1987). "Dynamic earth pressures with different wall movement modes." Soils and Foundations, JSSMFE, Vol. 27, No. 4, December, pp. 11-22. (SCI, IF = 0.413, Rank = 26/32)
24. Fang, Y. S.* and Ishibashi, I., (1986). "Static earth pressures with various wall movements." Journal of Geotechnical Engineering, ASCE, Vol. 112, No. 3, March, pp. 317-333. (SCI, IF = 1.156, Rank = 13/32, Times Cited: 105)
25. Sherif, M. A.*, Fang, Y. S. and Sherif, R. I., (1985). " K_a and K_o behind rotating and non-yielding walls." closure, Journal of Geotechnical Engineering, ASCE, Vol. 111, No. 8, August, pp. 1045-1046. (SCI, IF = 1.156, Rank = 13/32)
26. Sherif, M. A.* and Fang, Y. S., (1984). "Dynamic earth pressures on walls rotating about the top." Soils and Foundations, JSSMFE, Vol. 24, No. 4, December, pp. 109-117. (SCI, IF = 0.413, Rank 26/32)
27. Sherif, M. A.*, Fang, Y. S. and Sherif, R. I., (1984). " K_a and K_o behind rotating and non-yielding walls." Journal of Geotechnical Engineering, ASCE, Vol. 110, No. 1, January, pp. 41-56. (SCI, IF = 1.156, Rank = 13/32, Times Cited: 37)
28. 陳滄江, 方永壽* (2010) "以大型擋土牆模型量測靜止土壓力," 地工技術, 第125期, 民國99年9月, pp. 15-22.
29. 方永壽*, 林俊次, 許仕達, 鄭國雄, 周黎明, 蘇啟鑫, 陳滄江 (2006) "聯絡通道的地盤改良與施工," 地工技術, 第108期, 民國95年6月, pp. 81-90.
30. 方永壽*, (2005) "土木工程教育的轉型與調整," 土木水利雙月刊, 第32卷, 第1期, 民國94年2月, pp. 32-33.
31. 方永壽*, 簡國峰, 王大榮, 高宗正, 周黎明 (2004) "SJM噴射灌漿工法介紹," 地工技術, 第102期, 民國93年12月, pp. 79-88.
32. 方永壽*, 鐘雅君, 陳滄江, (2000) "臺北捷運噴射灌漿改良土之力學性質," 地工技術, 第78期, 民國89年4月, pp. 75-86.
33. 方永壽*, 陳滄江, 楊育智, 湯程傑, (2000) "集集大地震造成之擋土結構物破壞," 地工技術, 第77期, 民國89年2月, pp. 87-92.
34. 方永壽*, 陳秋宗, (1990), "潛盾隧道施工之監測系統," 地工技術, 第29期, 民國79年3月, pp. 50-63.
35. 方永壽*, (1987) "擋土結構物之土壓力考慮," 地工技術, 第17期, 民國76年1月, pp. 4-14.

(B) CONFERENCE PAPERS

1. Fang, Y. S.*, C. T. Liu, C. Liu, Cheng, K. H., Su, C. S., and T. J. Chen, (2013). "Construction of a Cross Passage between Two MRT tunnels." Proceedings, 18th International Conference on Soil Mechanics and Geotechnical Engineering, Paris, France, September 2-6, Vol. 1, pp. 1699-1702.
2. Fang, Y. S.*, Kao, C. C., Huang, M. Y. and Liu, C. (2013). "Double-O-Tube Shield Tunneling in Taoyuan International Airport MRT Project." Proceedings, 2013 Taiwan-Kazakhstan Joint Workshop in Geotechnical Engineering, Taipei, Taiwan, June 27, TGS3-1 to TGS3-4.
3. Fang, Y. S.*, Ju, H., Chen, P. S. and Liu, C. (2013). "Shield Tunneling through Gravelly Soils." Proceedings, International Symposium on Tunnelling and Underground Space Construction for Sustainable Development (TU-SEOUL 23013), Seoul, Korea, March 18-20, pp. 144-147.
4. Fang, Y. S.*, Cheng L. and Wang, F. J., (2012). "Effects of Adjacent Rock Face Inclination on Earth Pressure At-rest." Proceedings, 22nd International Offshore and Polar Engineering Conference, Rhodes, Greece, June 17-22, Vol. 2, pp. 836-841.
5. Fang, Y. S.*, Y. J. Jiang, (2010). "Earth pressure and stress path during vibratory compaction." Proceedings, 17th Southeast Asian Geotechnical Conference, May 10-13, Taipei, Taiwan, Vol. 1, pp. 88-91.
6. Fang, Y. S.*, and Y. L. Chien, (2009). "Variation of soil density and earth pressure due to strip compaction." Proceedings, 17th International Conference on Soil Mechanics and Geotechnical Engineering, Alexandria, Egypt, October 5-9, Vol. 1, pp. 700-704.
7. Fang, Y. S.*, Ju, D. H. and Chien, M. T., (2008). "Rate of ground settlement due to shield tunneling." Proceedings, International Geotechnical Conference: Development of urban areas and geotechnical engineering, Saint Petersburg, Russia, June 16 - 18, Vol. 2, pp. 639-644.
8. Fang, Y. S.*, Tzeng, S. H. and Chen, T. J., (2007). "Earth pressure on an unyielding wall due to a strip surcharge." Proceedings, 17th International Offshore and Polar Engineering Conference, Lisbon, Portugal, July 1 - 6, pp. 1233-1238.
9. Fang, Y. S.*, Lee, C. C. and Chen, T. J., (2006). "Passive earth pressure with various backfill densities." Proceedings, Sixth International Conference on Physical Modelling in Geotechnics, Hong Kong, August 4 - 6, Volume 2, pp. 1081-1086.
10. Fang, Y. S.*, Sung, C. L. and Wang, D. R., (2004). "Ground movements induced by slurry-shield tunneling in Taipei silt." Proceedings, 15th Southeast Asian Geotechnical Conference, November 22 - 26, Bangkok, Thailand, pp. 759-764.

11. Fang, Y. S.*, Kuo, L. Y., and Wang, D. R., (2004). "Properties of soilcrete stabilized with jet grouting." Proceedings, Fourteenth International Offshore and Polar Engineering Conference, Toulon, France, May 23-28, Vol. 2, pp. 696-702.
12. Fang, Y. S.*, Chen, H. R., and Chen, T. J. (2002). "Measurement of earth pressure at-rest with inclined backfill." Proceedings, International Conference on Physical Modeling in Geotechnics, St. John's, Newfoundland, Canada, July 10 – 12, pp. 871-876.
13. Fang, Y. S.*, Chen, T. J., Yang, Y. C. and Tang C. C., (2001). "The behavior of retaining walls under 1999 Chi-Chi earthquake." Proceedings, Fourth International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics, San Diego, California, March 26 – 31, Paper No. 10.06, pp. 1-6.
14. Bray, J. D.*, Fang, Y. S., Hyodo, M., Tani, S., Law, M. and Yang, H. W., (2001). "Case histories of geotechnical earthquake engineering failures, and geotechnical analysis of recent earthquakes, General Report – Session X." Proceedings, Fourth International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics, San Diego, California, March 26 – 31, Paper No. GR-10, pp. 1-5.
15. Fang, Y. S.*, Chang, C. M. and Chen, T. J., (2000). "Engineering properties of laboratory-mixed soilcement." Proceedings, GEOTECH-YEAR 2000, Developments in Geotechnical Engineering, Bangkok, Thailand, November 27-30, pp. 591-600.
16. Fang, Y. S.*, Yang, Y. C. and Chen, T. J., (2000). "Case study of retaining wall failure due to Chi-Chi earthquake." Proceedings, International Workshop on Annual Commemoration of Chi-Chi Earthquake, Taipei, Taiwan, September 18-20, pp. 241-250.
17. Fang, Y. S., and Yu, F. J., (1998). "Engineering properties of jet-grouted soilcrete and slime." Proceedings, **Keynote Speech**, International Symposium on Jet Grouting, Singapore, October 7, pp. 589-596.
18. Fang, Y. S.*, and Chung, Y. C., (1997). "Jet grouting for shield tunnelling in Taipei." Proceedings, International Conference on Ground Improvement Techniques, May, Macau, pp. 189-196.
19. Fang, Y. S.*, and Guo, J. S., (1995). "Effect of initial shearing on shear modulus and damping of sand." Proceedings, First International Conference on Earthquake Geotechnical Engineering, November, Tokyo, Japan, pp. 95-100. (NSC 79-0410-E-009-22)
20. Hwang, R. N.*, Ju, D. H., Tsai, M. S., and Fang, Y. S., (1995). "Soft ground tunnelling in Taiwan." Proceedings, US/Taiwan Geotechnical Engineering Collaboration Workshop, Taipei, Taiwan, January 9-11, pp. 77-90.

21. Fang, Y. S.*, Yang, J. S. and Sze, S. C., (1993). "Strength and permeability of jet grouted soilcrete for Taipei MRT construction." Proceedings, 11th Southeast Asian Geotechnical Conference, May, Singapore, pp. 337-342.
22. Fang, Y. S.*, Pan, M. D. and Lin, G. J., (1991). "Grouting to reduce ground settlements Due to shield tunnelling." Proceedings, 4th International Conference on Ground Movements and Structures, July, Cardiff, Wales, UK, pp. 698-713.
23. Fang, Y. S.* and Chen, C.T., (1990). "Subsidence in Taipei basin due to shield tunnelling," Proceedings, 10th Southeast Asian Geotechnical Engineering Conference, Vol. 1, April, Taipei, ROC, pp. 501-506.
24. Fang, Y. S.* and Chen, C.T., (1990). "Subsidence in Taipei basin due to shield tunnelling," Discussion, Proceedings, 10th Southeast Asian Geotechnical Engineering Conference, Vol. 2, April, Taipei, ROC, pp. 119.
25. Sherif, M.A.* and Fang, Y. S., (1984). "Dynamic earth pressures on rigid walls rotating about the base," Proceedings, 8th World Conference on Earthquake Engineering, Vol. 6, San Francisco, California, USA, June, pp. 993-1000.
26. 方永壽*, 陳柏碩 (2011). "卵礫石地盤潛盾隧道開挖引致之地表沉陷歷時關係." 論文集, 第十四屆大地工程學術研究討論會, 龍潭, 桃園縣, 民國100年8月, paper G-06.
27. 方永壽*, 余明山, 朱旭, 陳柏碩, (2011). "潛盾隧道施工遭遇卵礫石地盤研究案例." 大會主題報告, 台灣卷論文集, 2011海峽兩岸岩土工程/地工技術交流研討會, 廣州, 中國, 2011年5月12-13日, pp. 35-46.
28. 方永壽*, 高宗正, 曾紀緯, (2011). "地盤凍結工法在捷運隧道意外事故復舊工程之應用." 台灣卷論文集, 2011海峽兩岸岩土工程/地工技術交流研討會, 廣州, 中國, 2011年5月12-13日, pp. 117-124.
29. Fang, Y. S* and Huang J. F. (2009). "Earth pressures induced by various active wall movements." 論文集, 第十三屆大地工程學術研究討論會, 國立宜蘭傳統藝術中心, 宜蘭縣, 民國98年8月26-28日, pp. A35-1 to A35-6. (榮獲研討會頒發優良論文獎)
30. 方永壽*, 朱旭, 黃文慶, 陳滄江, (2008). "台北捷運板橋線通風井破鏡工程意外事故與復舊." 專題報告, 論文集, 海峽兩岸軌道交通建設與環境工程高級技術論壇, 杭州, 中國, 2008年11月, pp. 74-83.
31. 陳滄江, 方永壽*, (2007). "The Variation of Earth Pressure due to Vibratory Compaction." 論文集, 第十二屆大地工程學術研究討論會, 溪頭, 南投縣, 民國96年8月, pp. A1-45-01至 A1-45-07.
32. 方永壽*, 湯程傑, 范陳柏, 陳滄江, (2005). "於混合地層開挖潛盾隧道之案例研究." 論文集, 第十一屆大地工程學術研究討論會, 萬里, 台北縣, 民國94年9月, pp. F22-1至 F22-6.

33. 方永壽*, 簡明同 (2004). "潛盾隧道施工引致之地表沉陷速率," 論文集, 2004海峽兩岸地工技術/岩土工程交流研討會, 臺北市, 11月9~11日, 台灣卷, pp. 377-384.
34. 曾思凱, 方永壽*, (2003). "Horizontal pressure on an unyielding wall due to a strip surcharge," 論文集, 中華民國第27屆全國力學會議, 國立成功大學, 臺南市, 12月12日, 論文編號 C119.
35. 方永壽*, 陳勝峰, 林世杰, 陳滄江, (2003). "台北捷運系統潛盾隧道施工引致之地盤沉陷." 論文集, 第三屆兩岸結構與大地工程研討會, 國立台灣大學工學院, 台北市, 民國92年10月23-24日, pp. 541-548.
36. 方永壽*, 余明山, 黃永智, 陳滄江, (2003). "打樁對粉質砂土密度之影響." 論文集, 第十屆大地工程學術研究討論會, 三峽, 台北縣, 民國92年10月, pp. 163-166.
37. 方永壽*, 李文瑄, 常岐德, 范陳柏, 陳滄江, 黃永智, (2002). "於軟弱地盤開挖潛盾隧道之案例研究." 論文集, 2002年捷運系統建設中大地工程科技之應用研討會, 台南市, 國立成功大學, 民國91年5月3日, pp. 69-91.
38. 方永壽*, 張兆麟, 簡明同, 陳滄江, (2001). "潛盾隧道施工引致之地表沉陷速率." 論文集, 第九屆大地工程學術研究討論會, 石門水庫, 桃園縣, 民國90年8月, pp. F0061- F0068.
39. 方永壽*, 鄭國雄, 湯程傑, 陳滄江, (2001). "於混合地層開挖潛盾隧道之案例研究." 論文集, 2001年捷運系統建設中大地工程科技之應用研討會, 台南市, 國立成功大學, 民國90年5月11日, pp. 75-92.
40. 方永壽*, 鄭國雄, 湯程傑, (2000). "潛盾隧道於含礫石層混合地盤開挖之案例研究." 論文集, 2000年捷運系統建設中大地工程科技之應用研討會, 高雄市, 捷運工程局, 民國89年5月30日, pp. 75-96.
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