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一、研究成果目錄：

A.期刊論文

1. Chang, T. S., Kung, H. T., and Pezeshk, S. (1994) "GIS in Seismic Evaluation of Essential Facilities." International Journal of Microcomputers in Civil Engineering 9 (1994) 2771-280.
2. Pezeshk, S., Chang, T. S., Yiak, K.C., and Kung, H. T. (1993). "Seismic Vulnerability Evaluation of Bridges in Memphis and Shelby County." Professional Journal of the Earthquake Engineering Research Institute, Earthquake Spectra, Vo1. 9, No.4, 1993, pp. 803-816.
3. Chang, T. S., and Woods, R.D.(1992). "Effect of Particle Contact Bond on Shear Modulus." ASCE,Journal of Geotechnical Engineering, Vo1. 118, No.8, August, 1992, pp.1216-1233.
4. Chang, T. S. (1992) "Dynamic Properties of Typical Memphis Soils and Their Application in Seismic Hazards Assessment." Journal of Tennessee Academy of Science, 67(3) : 39-45
5. Chang, T. S. (1990) "Earthquake Issues in The Mid-South." Invited Paper, ASCE Journal of Professional Issues in Engineering, Vo1. 116, No. 3, pp. 284-286.
6. Hwang, H. M., Low, Y. K., Jaw, J. W., and Chang, T. S. (1988). "Soil Effects on Strong Earthquake Acceleration in Memphis Area." CERl technical report, August 1988.

B.研討會論文

7. Pezeshk, S., Chang, T. S., Yiak, K. C. and Kung, H. T. (1994) "Earthquake Resistant Integrity of Selected Essential facilities in West Tennessee." Proceedings of EERI 5th National Conference on Earthquake Engineering, July 10-14, 1994, Chicago, Illinois, pp 489-497.
8. Chang, T. S., Patri,N. R.. and Chang, K. P. (1994) "Site-related Seismic Characteristics in West Tennessee." Proceedings of EERI 5th National Conference on Earthquake Engineering, July 10-14, 1994, Chicago, Illinois, pp 651-660.
9. Chang, T. S., and Zhang, Y. (1994) "Dynamic Properties of Natural Sedimentary Soils in the New Madrid Seismic Zone." Proceedings of EERI 5th National Conference on Earthquake Engineering, July 10-14, 1994, Chicago, Illinois, pp 641-650.

10. Liu, P. S., Chang, T. S. and Kung, H. T. (1993) "Geographic Information System and Earthquake Hazard Assessment of Essential Facilities in the Memphis Area." Proceedings of 1993 National Earthquake Conference in Memphis, May, 1993, pp. 393-402.
11. Stevens, J., Chang, T. S. and Kung, H. T. (1993) "Seismic Code Adoption and Enforcement in the Central United States: Current Policies in State and Local Jurisdiction." Proceedings of 1993 National Earthquake Conference In Memphis, May, 1993, pp. 659-667.
12. Chang, T. S. (1993) "Development of Preliminary Regional Seismic Hazard Maps Using Engineering Boring Logs and Laboratory Techniques." Proceedings of 1993 US-France Workshop on Earthquake Hazard Assessment in the Central and Eastern US and Western Europe, Memphis, TN, May 5-6, 1993.
13. Chang, T. S., and Chang, K. P. (1993) "Earthquake-induced Settlements in the Memphis Area" Proceedings of 1993 National Earthquake Conference in Memphis, May, 1993, pp. 15-24.
14. Yiak, K. C., Chang, T. S., and Pezeshk, S. (1993) "Field Inspection of Existing Essential Facilities for Seismic Vulnerability." Proceedings of 1993 National Earthquake Conference in Memphis, May, 1993, pp. 225-234.
15. Chang, T. S., Hwang, H., Ng, K. W. E. and Lee, C. S. (1991). "Subsurface Conditions in Memphis and Shelby County." Proceedings of the Second International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics, St. Louis, Missouri, March 11-13, 1991, pp. 1305-1311.
16. Chang, T. S., Tang, P. S., Lee, C. S. and Hwang, H. (1991). "Liquefaction Potential in the Memphis Area." Proceedings of the Fourth International Conference on Seismic Zonation, August 26-29, 1991, Stanford University, California, pp. 459-466.
17. Hwang, H., Low, Y. K. and Chang, T. S. (1989). "Seismic Response Study of Two Memphis Sites." Proceedings of 1989 Foundation Engineering Congress, ASCE, Northwestern University, Evanston, Illinois, June 1989, pp. 786-799.
18. Chang, T. S. (1989), "Effect of Damping on the Dynamic Response of Soil Systems." Structural Dynamics and Soil Structure Interaction. Fourth International Conference on Soil Dynamics and Earthquake Engineering, Mexico City, Mexico, October 23-26, 1989, pp. 371-384.
19. Chang, T. S. and Woods, R. D. (1988). "Internal Damping of Cementitious Composite Material." Earthquake Engineering and Soil Dynamics GT Div/ASCE, Park City, Utah, June 27-30, 1988, pp. 359-373.
20. Chang, T. S. and Woods, R. D. (1987). "Effect of Confining Pressure on Shear Modulus of Cemented Sand." Soil Structure Interaction. Developments in Geotechnical Engineering

43. Computational Mechanics Publications. International Conference on Soil Dynamics and Earthquake Engineering, Princeton University, Feb. 1987, pp.193-208.

C. 技術報告及其它

21. Chang, T. S., Vedula, Ramakumar, and Chang, Kuo-Ping (1994). "Improvement of Static and Dynamic Properties of Soft Clay Using High Pressure Jet Grout Technique." CERI research report submitted to Eastern Construction Company, Taipei, Taiwan, December, 1994.
22. Chang, T.S., Lin, Hsueh-Jung, Hu, En-Ping Hu, Pezeshk, S., and Kung, H. T. (1994). "Inventory and Preliminary Vulnerability Assessments of Essential Facilities in East Arkansas." CERI technical report submitted to USGS, June 1994.
23. Chang, T. S., Kung, H. T., Pezeshk, S., and Yiak, K. C. (1993), "Inventory and Preliminary Vulnerability Assessments of Essential Facilities in West Tennessee." CERI technical report submitted to USGS, June 1993.
24. Chang, T. S., Chang, Patri, Rao, Chung, W. Y. and Kung, H. T. (1993). "Engineering Earthquake Hazard Evaluation in West Tennessee. " CERI technical report submitted to USGS, June, 1993.
25. Chang, T. S., Teh, L. K., and Zhang, Yigong (1992). "Seismic Characteristics of Sediments in the New Madrid Seismic Zone." CERI technical report submitted to NSF, February 1992.
26. Chang, T. S., Kung, H. T., Pezeshk, S., and Yiak, K. C. (1992). "Inventory and Preliminary Vulnerability Assessments of Essential Facilities in Memphis and Shelby County." CERI technical report submitted to USGS, April 1992.
27. Chang, T. S., Chang, K. P. Chung, W. Y. and Johnston, A. C. (1992). "Earthquake Hazard Evaluation in the Central New Madrid Seismic Zone." CERI technical report submitted to NSF, May, 1992.
28. Pezeshk, S., K. R. Caldwell, S. L. Wilson, and T. S. Chang (1992) "Seismic Vulnerability Assessment of Essential Facilities in Osceola Arkansas." CE Technical report submitted to FEMA and City of Osceola, AR, 1992.
29. Chang, T. S., K. P. Chang, W. Y. Chang, H. Hwnag, and A.C. Johnston (1991) "Engineering Subsurface Information and Criteria for Regional Earthquake Hazard Evaluation in the NMSZ." USGS NEHRP Open-File Report 92-258, Volume XXX, October 1991, pp. 790-795.
30. Chang, T. S., H. T. Kung, S. Pezeshk, and H. Hwang, (1991) "Inventory and Preliminary Vulnerability Assessment of Essential Facilities in Mewmphis and Shelvy County." USGS NEHRP Open-File Report 920258, Volume XXX, October 1991, pp. 796-801.

31. Chang, T. S., Woods, R. D. and Li, N. H. (1990). "Preparation of Grouted Sand Specimen for Dynamic Testing." Technical Note, ASTM Geotechnical Testing Journal, GTJPDJ, Vo1. 13, No. 3, pp. 235-242. Lee, C. S., Hwang, H. M., and Chang, T. S. (1991). "Subsurface Exploration at Pipeline Crossing Near Wolf River." CERI technical report, September 1991.
32. Chang, T. S., (1990). "Dynamic Properties of Typical Memphis Soils." CERI technical report. CERI-1990-002.
33. Chang, T. S. Tang, P. S., Lee, C. S., and Hwang, H. M. (1990). "Evaluation of Liquefaction Potential in Memphis and Shelby County." NCEER technical report NCEER-90-0018.
34. Ng, K. W., Chang, T. S. and Hwang, H. M. (1989). "Subsurface Conditions of Memphis and Shelby County." NCEER technical report NCEER-89-0021, June 1989.