

## REFERENCES

- Andersen, E. (1997). "A centrifuge modeling study of the seismic response of geosynthetic-reinforced slopes," *M.S. Thesis*, University of Washington, 148 pp.
- Bathurst, R.J., Cai, Z., and Pelletier, M. (1996). "Seismic design and the performance of reinforced segmental retaining walls," *Geotechnical Fabrics Report*, Aug. issue, pp. 48-51.
- Berg, R.R., Chouery-Curtis, V.E., and Watson, C.H. (1989), "Critical failure planes in analysis of reinforced slopes," *Proceedings of Geosynthetics '89*, Volume 1, San Diego, CA., Industrial Fabrics Association International, February, pp. 269-278.
- Bonaparte, R., Holtz, R.D., and Giroud, J.P. (1987). "Soil reinforcement design using geotextiles and geogrids," *Geotextile Testing and the Design Engineer*, ASTM STP 952, J.E. Fluet, Jr., Ed., American Society for Testing and Materials, Philadelphia, PA, pp. 69-116.
- Casey, J.A. (1988). "A comparison of two earth retaining systems: a dynamic centrifuge study," *M.S. Thesis*, University of California at Davis.
- Casey, J.A., Soon, D., Kutter, B., and Romstad, K. (1991). "Modeling of mechanically stabilized earth systems: a seismic centrifuge study," *Geotechnical Engineering Congress*, ASCE, Volume II, Special Publication No. 27, pp. 839-850.
- Christopher, B.R., and Holtz, R.D. (1989). "Geotextile design and construction guidelines," Federal Highway Administration, National Highway Institute, Report No. FHWA-HI-90-001, 297 pp.
- Christopher, B.R., Gill, S.A., Giroud, J.P., Juran, I. Scholsser, F. Mitchell, J.K. and Dunicliff, J. (1990). "Reinforced soil structures", Volume I. Design and Construction Guidelines, Federal Highway Administration, Washington, D.C., Report No. FHWA-RD-89-043, November, 287 pp.
- Clayton, C.R.I, Milititsky, J. and Woods, R.I. (1993). *Earth Pressure and Earth-Retaining Structures*. 2<sup>nd</sup> Edition, Chapman & Hall, Glasgow, New Zealand. 398 pp.
- Collin, J.G., Chouery-Curtis, V.E., and Berg, R.R. (1992). "Field observations of reinforced soil structures under seismic loading," *Proceeding of the International Symposium on Earth Reinforcement Practice*, Fukuoka, Japan, Volume 1, pp. 223-228.

- Das, B.M. (1984). *Principles of Foundation Engineering*. 2<sup>nd</sup> Edition, PWS-KENT Publishing Company, Boston, MA. 731 pp.
- Das, B.M. (1998). *Principles of Foundation Engineering*. 4<sup>th</sup> Edition, Brooks/Cole Publishing Company, Pacific Grove, CA.
- Electric Power Research Institute (1993). "Guidelines for determining design basis ground motions," Report TR-102293, Volume 2, pp. 7.A-1-7.A.59.
- Eliahu, U. and Watt, S. (1991). "Geogrid-reinforced wall withstands earthquake," *Geotechnical Fabrics Report*, Volume 9, No. 2, pp. 8-13.
- Fairless, G.J. (1989). "Seismic performance of reinforced earth walls," Research Report 89-8, *Pd.D. Dissertation*, University of Canterbury, Christchurch, New Zealand.
- Duncan, J.M. (1992). "State-of-the-art: static stability and deformation analysis," in R.B. Seed and R.W. Boulanger, eds., *Proceedings, Specialty Conference on Stability and Performance of Slopes and Embankments, II*, ASCE, New York, Volume 1, pp. 222-266.
- Holtz, R.D., Christopher, B.R., and Berg, R.R. (1997). *Geosynthetic Engineering*. BiTech Publishers, Richmond, British Columbia, Canada, 452 pp.
- Howard, R.W.A, Jr., Kutter, B.L., and Siddharthan, R. (1998). "Seismic deformation of reinforced soil centrifuge models, *Proceedings of the 3<sup>rd</sup> Geotechnical Earthquake Engineering and Soil Dynamics Conference*, Spec. Pub. No. 75, Volume 1, pp. 446-457.
- Koga, Y., Ito, Y., Washida, S., and Shimazu, T. (1988). "Seismic resistance of reinforced embankment by model shaking table tests," *International Geotechnical Symposium On Theory and Practice of Earth Reinforcement*, pp. 413-418.
- Koga, Y., and Washida, S. (1992). "Earthquake resistant design method of geotextile reinforced earth embankments," *Proceedings of the International Symposium on Earth Reinforcement Practice*, Fukuoka, Japan, Volume 1, pp. 255-259.
- Koseki, J., Munaf, Y., Tatsuoka, F., Tateyama, M., Kojima, K., and Sato, T. (1998). "Shaking table and tilt table test of geosynthetic-reinforced soil and conventional-type retaining walls," *Geosynthetics International*, Volume 5, No. 1-2, pp. 73-96.
- Kramer, S.L. (1996). *Geotechnical Earthquake Engineering*. Prentice-Hall, Inc., Upper Saddle River, NJ, 653 pp.

- Kramer, S.L. and Smith, M.W. (1997). "Modified Newmark model for seismic displacements of compliant slopes," *Journal of Geotechnical and Geoenvironmental Engineering*, Volume 123, No. 7, July, pp. 635-644.
- Kramer, S.L. and Paulsen, S. (2001). "Seismic performance of MSE structures in Washington State," *International Geosynthetics Engineering Forum 2001*, Taipei, Taiwan, pp. 145-173.
- Lemos, L.J.L. and Coelho, P.A.L.F. (1991). Displacements of slopes under earthquake loading, *Proceedings, 2<sup>nd</sup> International Conference of Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics*, St. Louis, MO., Volume 2, pp. 1051-1056.
- Leshchinsky, D. (1995). "Design procedure for geosynthetic reinforced steep slopes," Technical Report REMR-GT-120, US Army Engineer Waterways Experiment Station, Vicksburg, MS.
- Lindquist, D.D. (1998). "Seismic modeling of geosynthetic-reinforced slopes," *M.S. Thesis*, University of Washington, 158 pp.
- Ling, H., Tatsuoka, F., Sato, T., Tamura, Y., and Iwasaki, K. (1989). "Long-term behavior of the geotextile-reinforced clay test embankment," *Proceedings of the 24<sup>th</sup> National Convention of Japanese Society of Soil Mechanics and Foundation Engineering*, Tokyo, Japan, pp. 31-36.
- Ling, J.I., Leshchinsky, D. and Perry, E.B. (1997). "Seismic design and performance of geosynthetic-reinforced soil structures," *Geotechnique*, Volume 47, No. 5, pp. 933-952.
- Ling, H.I., Leshchinsky, D., Nelson, N.S.C. (2001). "Post-earthquake investigation on several geosynthetic-reinforced soil retaining walls and slopes during the Ji-Ji earthquake of Taiwan," *Soil Dynamics and Earthquake Engineering*, Volume 21, p. 297-313.
- Matsuo, O., Tsutsumi, T., Yokoyama, K. and Saito, Y. (1998). "Shaking table tests and analyses of geosynthetic-reinforced soil retaining walls," *Geosynthetics Int.*, Volume 5, No 1-2, pp 97-126.
- McElroy, J.A. (1997). "Seismic stability of geosynthetic reinforced steep slopes: a shaking table study," *M.S. Thesis*, University of Washington.
- Mitchell, J.K. and Villet, W.C.B. (1987). Reinforcement of earth slopes and embankments, *National Cooperative Highway Research Program Report 290*, Transportation Research Board, Washington, D.C., 323 pp.

- Mononobe, N. and Matsuo, H. (1929). "On the determination of earth pressures during earthquakes," *Proceedings, World Engineering Congress*, 9.
- Murata, O., Tateyama, M., and Tatsuoka, F. (1994). "Shaking table tests on a large geosynthetic-reinforced soil retaining wall model," *Recent Case Histories of Permanent Geosynthetic Reinforced Soil Retaining Walls: Proceedings of Seiken Symposium, No. 11*, Tokyo, Japan, pp. 259-264.
- Nagel, R.B. (1985). "Seismic behavior of reinforced earth walls," Research Report 85-4, University of Canterbury, Christchurch, New Zealand.
- Nelder, J.A., and Mead, R. (1965). "A simplex method for function minimization," *Computer Journal*, Volume 7, pp. 308-313.
- Newmark, N. (1965). "Effects of earthquakes on dams and embankments," *Geotechnique*, Volume 115, No. 2, pp. 139-160.
- Nova-Roessig, L. (1999). "Centrifuge studies of the seismic performance of reinforced soil structures," *Ph.D Dissertation*, University of California, Berkeley, 233 pp.
- Nova-Roessig, L. and Sitar, N. (1998). "Centrifuge studies of the seismic response of reinforced soil slopes," *Proceedings of the 3<sup>rd</sup> Geotechnical Earthquake Engineering and Soil Dynamics Conference*, Spec. Pub. No. 75, Volume 1, pp. 458-468.
- Nova-Roessig, L. and Sitar, N. (1999). "Centrifuge model studies of the seismic response of reinforced slopes," *Proceedings, Second International Conference on Earthquake Geotechnical Engineering*, P. Seco e Pinto (ed.), A.A. Balkema, Rotterdam, Volume 3, pp. 1083-1088.
- Okabe, S. (1926). "General theory of earth pressures," *Journal of the Japan Society of Civil Engineering*, Volume 12, No. 1.
- Perez, A. (1999). "Seismic response of geosynthetic reinforced steep slopes," *M.S. Thesis*, University of Washington, 232 pp.
- Reinforced Earth Company (1990). "An investigation of reinforced earth structures impacted by the Loma Prieta earthquake," Reinforced Earth Company, McLean, VA, miscellaneous report.
- Reinforced Earth Company (1991). "Reinforced earth structures on seismic regions," Reinforced Earth Company, Paris, France, miscellaneous report.

- Reinforced Earth Company (1994). "Performance of the reinforced earth structures near the epicenter of the Northridge earthquake, January 17, 1994," Reinforced Earth Company, Vienna, VA, miscellaneous report.
- Richardson, G.N. and Lee, K.L. (1975). "Seismic design of reinforced earth walls," *Journal of the Geotechnical Engineering Division*, Volume 101, No. GT-2, ASCE, pp. 167-188.
- Sakaguchi, M. (1996). "A study of the seismic behavior of geosynthetic reinforced walls in Japan," *Geosynthetics Int.*, Volume 3, No. 1, 13-30.
- Sakaguchi, M., Muramatsu, M., and Nagura, K. (1992). "A discussion on reinforced embankment structures having high earthquake resistance," *Proceeding of the International Symposium. On Earth Reinf.. Practice*, Fukuoka, Japan, Volume 1, pp. 287-292.
- Sandri, D. (1994). "Retaining walls stand up to the Northridge earthquake," *Geotechnical Fabrics Report*, Volume 12, No. 4, pp. 30-31.
- Schmertmann, G.R., Bonaparte, R., Chouery, V.C., and Johnson, R.J. (1987). "Design charts for geogrid reinforced steep slopes," *Proceedings of Geosynthetics '87*, New Orleans, LA, Industrial Fabrics Association International, St. Paul, MN, pp. 108-120.
- Sitar, N. (editor), Akai, K., Bray, J.D., Boulanger, R.W., Christian, J.T., Finn, L., Harder, L.F., Idriss, I.M., Ishihara, K., Iwasaki, Y.T., Mitchell, J.K., Moriwaki, Y., Nakagawa, K., O'Rourke, T.D., Seed, R.B., Soga, K., Somerville, P., Towhata, I., and Youd, T.L. (1995). "Geotechnical reconnaissance of the effects of the January 17, 1995, Hyogoken-Nanbu Earthquake, Japan," Earthquake Engineering Research Center, Report No. UCB/EERC-95/01, University of California.
- Smith, M.W. (1995). "Seismic stability of landfills," *M.S. Thesis*, University of Washington, 179 pp.
- Stewart, J.P., Seed, R.B., Riemer, M., and Zornberg, J.G. (1994). "Geotechnical structures: Northridge earthquake," *Geotechnical News*, June issue, pp. 59-62
- Sugimoto, M., Ogawa, S. and Moriyama, M. (1994). "Dynamic characteristics of reinforced embankments with steep slope by shaking model tests," *Recent Case Histories of Permanent Geosynthetic-Reinforced Soil Retaining Walls*, 11<sup>th</sup> Seiken Symposium ., Tokyo, Japan, pp. 271-275.
- Tatsuoka, F., Tateyama, M., and Koseki, J. (1996). "Performance of soil retaining walls for railway embankments," *Soils and Foundations*, Special Issue on Geotechnical Aspects of the January 17, 1995, Hyogoken-Nanbu Earthquake, pp. 311-324.

- Terzaghi, K. (1950). Mechanisms of Landslides, *Engineering Geology (Berkey) Volume*, Geological Society of America.
- Tika-Vassilikos, T.E., Sarma, S.K., and Ambraseys, N. (1993). "Seismic displacements on shear surfaces in cohesive soils," *Earthquake Engineering and Structural Dynamics*, Volume 22, pp. 709-721.
- Wolfe, W.E., Lee, K.L., Rea, D., and Yourman, A.M. (1978). "The effect of vertical motion on the seismic stability of reinforced earth walls," *Proceedings of the Symposium on Earth Reinforcement*, ASCE, Pittsburg, PA, pp. 856-879.
- Wolfe, W.E. and Rea, D. (1980). "Earthquake induced deformations in reinforced earth walls," Report to NSF, UCLE-ENG-8027.
- Zarrabi-Kashani, K. (1979). "Sliding of gravity retaining wall during earthquakes considering vertical accelerations and changing inclination of failure surface," S.M. thesis, Department of Civil Engineering, Massachusetts Institute of Technology, Cambridge, MA.
- Zornberg, J.G., Sitar, N., and Mitchell, J.M. (1998). "Limit equilibrium as basis for design of geosynthetic reinforced slopes," *Journal of Geotechnical and Geoenvironmental Engineering*, Volume 124, No. 8, August, pp. 684-698.